INDEX TO THE U.S. PATENT CLASSIFICATION

990

DECEMBER 1990

INDEX TO CLASSIFICATION

	Class	Subclass
A		
A-frame Structure	D25	29
Abacus	434	203*
Design	D18	6*
Abattoir (See Butchering)		
Abdominal		
Supporters	128	518R*
Abietic Acid	260	97*
Esters	560	7
Sulfonated	260	503.5
Abietyl Alcohol	568	714
Ablative Fluids	169	DIG. 2
Abort		
Indicator of aborted start	431	15
Motor with abort means	60	379
Abrading (See File or Filing, grinding)	51	
Abradant-filled bags	51	294
Attachments for cutlery	51	241R*
Comminuting solid material by	241	
Apparatus	241	31*
Hard material in situ	299	
Process	241	1*
Cutlery combined	30	138*
Dental apparatus	433	142
Motor driven	433	125
Filter block cleaning by	210	353
Frames and mounts	51	166R*
Fruit peeler and parer	99	588*
Grain hulling		
Apparatus	99	600*
Processes	426	482*
Graters for vegetables	241	273.1*
Hand held power tool	D 8	61*
Horseshoe calk sharpeners	168	46
Kerf cutting in the earth	299	29*
Lubricant by fluid for feeding	184	60
Machinery design	D15	124*
Machines	51	2R*
Manicuring		
Compound tools	132	75.6
Implements	132	76.4
Mask or stencil	51	262R
Utilizing	51	310*
Material	51	293*
Methods	51	281R*
Processes	51	281R*
Razor combined	30	138*
Saw sharpening	76	31*
Severing by	51	98R
Sharpeners	D 8	91*
Test by	73	7
Tool, flexible member	51	394*
Tool, rigid	51	204*
Tool carrier	51	330*
Tool making	51	293*
Traveling band	51	135R*
Tumbling device	51	163.1*
Chemical agents	252	184
Colloid resolving or inhibiting	252	322*
Drying	252	194
Getters for electric lamps etc	252	181.1*
Liquid containing	252	1
Refrigerant	252	69
Converting mineral oil using	208	46*
Dehumidification of gas with refrigeration	62	271
Processes	62	94
Dehydrating mineral oil with	208	188
Distilled vapor treating	203	41
Apparatus	202	183*
Drying solids (See blotter)	34	95*
Sheet form for printed matter	101	419
Web form for printed matter	101	417*
Web or sheet form absorbent	34	94
Electric battery gas vents	429	86
Gas separators	55	
Drier combined with	34	71
Gas storing	206	6*
Liquefied gas handling	62	48
Producing	62	17*
Liquid separating, by	210	660*
Chromatography	210	665*
Material separation by		
Carbon compound physical treatment	260	708
Chemical sugar refining processes	127	49
Combined drying	34	71
Dehydrating oil	208	188
Distillation process combined	203	41
Distillation system combined	202	183*
Drying	34	95
Drying vapor treatment	34	80*
From gases	55	
Liquid purification	210	660*
Chromatography	210	656*
Mineral oil separation	208	341*
Physical sugar refining processes	127	55
Purification of fats etc	260	427
Smoking device smoke treating	131	203*
Tobacco products smoke treating	131	331
Neutron	376	339
Other drying means combined	34	71
Purification of fats oils waxes	260	427
Receptors	604	358*
Refrigeration producing	62	476*
Automatic	62	141*
Processes	62	101*
Smoking devices used with	131	203*
Surgical pads	604	358*
Vacuumizing a chamber	62	268*
Wipers & brushes	15	
Absorber, Nuclear Energy	250	515.1*
Radar	342	1
Absorption (See Absorbents)		
Calculating	235	
Computer controlled, monitored	364	406
Manifolding	282	
Perforated article assorting	209	613
Printed matter	283	
Punch selector	234	
Typing	400	
Accumulator	425	DIG. 1
Boiler steam storage	122	35
Calculating totalizer	235	
Variator with accumulator	235	61FC
Combustion products power plants	60	731
Cookers fireless	126	273.5
Electric battery	429	149*
Fluid pressure compensator	138	26*
Heat absorber structure	126	400
Heat radiator	237	75
Heat storage	165	18
Regenerator	165	4*
Hill planting	111	51
Hydraulic	138	26*
Power plant	60	413*
Power plant	60	659
Motor steam exhaust	60	659
Pump combined	417	540*
Refrigerant	62	503
Automatic	62	174
Storage battery	429	
Vehicle heater	237	44
Water heater combined	126	375
Acetals	568	590*
Cyclic 5 membered ring	549	430*
Cyclic 6 membered ring	549	369*
Acetanilide	564	218
Acetate	536	69*
Cellulose	536	69*
Esters	560	231*
Lead	556	105
Light metal salts	562	607
Polyvinyl (See also synthetic resin or natural rubber)	526	319
Silk (See artificial silk)		
Acetic Acid	562	607
Dehydration of	203	16
Acetoacetic Acid	562	577
Esters	560	178
Acetone	568	382
Fermentative production	435	150*
Purification or recovery	568	411
Acetonitrile	558	435
Acetophenone	568	335
Acetosalicylic Acid	560	143
Acetyl		
Chloride	260	54
Acetylation (See Acetate)		
Amines	54	
Ketene production		

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U.S. DEPARTMENT OF COMMERCE/Patent and Trademark Office

INDEX TO THE U.S. PATENT CLASSIFICATION

DECEMBER 1990

U.S. DEPARTMENT OF COMMERCE
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U.S. Patent and Trademark Office
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Commissioner of Patents and Trademarks

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Washington, DC 20402

Preface

The *Index to the U.S. Patent Classification*, referred to hereafter as the Index, is based on the system used to classify patents in the U.S. Patent and Trademark Office. It is an alphabetical list of subject headings referring to specific classes and subclasses of the classification system. The Index is intended as an initial means of entry into the classification system and should be particularly useful for those lacking experience in using the classification system and those unfamiliar with the particular technology under consideration.

There are continual changes in the classification system. New classes and subclasses are established due to new developments in science and technology and old classes and subclasses are abolished when rendered obsolete by technological advance. These classification changes result in frequent changes in the Index. This edition is current as of October 31, 1990 and includes all reclassification changes through Order Number 1357.

Beginning with the 1977 edition, the Index was expanded to include unofficial subclasses, digests, and cross-reference art collections. It is our intention to eliminate unofficial subclasses and digests by converting them to official subclasses and cross-reference art collections through reclassification. When this effort is complete, the converted groupings will be available in both the Examiners' Files and the Public Search Room. Until then, there will still be references in this Index to the unofficial groupings, i.e., "alpha" subclasses and digests.

An alphabetical list of the utility class titles and a separate list of the design class titles follow this preface. The searcher may find it useful to scan the titles to see which major topics are represented.

As a first step in locating a field of search, the searcher should look in the Index for the term which to him best represents the subject matter of interest. If a match is not found, he should look for terms of approximately the same meaning, for terms of either broader or narrower scope, or for terms which represent a different approach to the subject (e.g., the essential function or effect of the device or the use or application to which the device or composition of matter is put). On finding the identifying numbers of possibly pertinent classes and subclasses in the Index, the user should refer to the *Manual of Classification* and ascertain from among the existing choices the precise classification identity of his subject of interest. He should start with the first major subclass (i.e., Bold Faced Subclass) in the selected class and proceed from one major coordinate subclass to another until one is found which seems most nearly pertinent. The minor subclasses therein should then be scanned to find the title which indicates inclusion of the subject matter in question. Where doubt exists as to choice among several subclasses, the user may consult the *Classification Definitions* containing the definitions of the class under study. The *Classification Definitions* supplement the *Manual of Classification* by giving detailed definitions and illustrations of the kind of subject matter that can be found in each class and subclass, describing the lines of distinction among them and containing references to other classes and subclasses having related subject matter.

Subject headings in the Index are not an alphabetical inversion of the *Manual of Classification*. They are a subjective determination of relevant terms, phrases, synonyms, acronymns, and occasionally even trademarks which have been selected over the years as best identifying and describing products, processes, and apparatus of patent disclosure.

The Index will be found to contain product-related entries where the *Manual of Classification* is descriptive or non-specific. For example, the Index entry for phonograph record molding apparatus is reflected in the *Manual of Classification* as a "press forming apparatus having opposed press members." Some effort has been made to index vocabulary of current usage where the classification system may be technically general—e.g., "water bed" or "air mattress" for the concept "fluid-contained mattress."

The Index is arranged alphabetically with subheadings that can extend four levels of indentation. A complete reading of a subheading includes the title of the most adjacent higher heading, and so on until there are no higher headings. Some headings will reference other related or preferred entries with a "(see . . .)" phrase. They may reference the notes to the *Classification Definitions* when these notes are particularly detailed or lucid on important distinctions not easily captured in the abbreviated entries of the Index.

Preface—Continued

Symbols and abbreviations used in the Index are as follows:

A. . .Z — An Alpha designation following the official numeric subclass identifies an unofficial subclass, i.e., a grouping of patents selected out from an official subclass by an examiner and then made an indented subclass under the official subclass, usually for purposes of further breaking down a concept. For example, in Class 273 Amusement Devices, Games, Subclass 58A collects balls which are solid and which are covered. Topics not specifically selected out are left in a residual subclass, designated R. For example, 58R is generic to balls not provided for elsewhere. Unofficial subclass groupings are used in the Examiners' Files; they are not available in the Public Search Room.

Ctg. — "Containing" may be abbreviated "ctg" in long chemical phrases.

D — Design classes are preceded by the letter D, as in D2.

DIG. — A digest, indicated by DIG. and a subclass number, is an unofficial collection of patents based on a concept which relates to a class but not to any particular subclass of that class. In this Index 123 DIG. 12 is a collection of Hydrogen fueled engines in Class 123, Internal Combustion Engines. Digests have been created over the years by examiners to facilitate their searches within the arts under their jurisdiction. They are unofficial collections and are not available in the Public Search Room.

PLT — Plant patents are identified as class PLT.

TM — A few trademark names have been included where a particular field of search could best be suggested by such. These are identified by the letters TM.

\+ — The plus sign following the subclass indicates that the entry includes that subclass and all subclasses indented thereunder. (See the Manual of Classification for class schedules with subclasses.)

X-art — Cross reference art collections may be described in the text as "X-art" collections. These are official collections of patents based on a concept which relates to a class but not to any particular subclass of that class. For example, Class 425 contains molding apparatus described by a functional structure and cross-reference art collection 801 collects button molding patents into one group.

* — The asterisk following a subclass designates a cross-reference art collection.

Users are encouraged to make suggestions for future revisions of this Index. Identification of errors and omissions are welcomed. When recommending new entries, please include the classification with the descriptor, if possible. Send suggestions to *Index to U.S. Patent Classification,* Office of Documentation, U.S. Patent and Trademark Office, Washington, D.C. 20231.

The Index is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Each subscription to the *Manual of Classification* includes one copy of the Index and any new edition issuing during the life of the subscription. Responsive to the many requests for multiple copies, the Government Printing Office now sells the Index as a separate stand-alone document.

CLASSES ARRANGED IN ALPHABETICAL ORDER

CLASS	Title of Class
51	Abrading
181	Acoustics
357	Active Solid State Devices, e.g., Transistors, Solid State Diodes
156	Adhesive Bonding and Miscellaneous Chemical Manufacture
226	Advancing Material of Indeterminate-Length
244	Aeronautics
366	Agitating
420	Alloys or Metallic Compositions
102	Ammunition and Explosives
86	Ammunition and Explosive-Charge Making
330	Amplifiers
272	Amusement and Exercising Devices
273	Amusement Devices, Games
446	Amusement Devices, Toys
119	Animal Husbandry
2	Apparel
223	Apparel Apparatus
221	Article Dispensing
236	Automatic Temperature and Humidity Regulation
4	Baths, Closets, Sinks and Spittoons
136	Batteries, Thermoelectric and Photoelectric
384	Bearings
5	Beds
449	Bee Culture
402	Binder Device Releasably Engaging Aperture or Notch of Sheet
8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers
10	Bolt, Nail, Nut, Rivet and Screw Making
412	Bookbinding: Process and Apparatus
281	Books, Strips and Leaves
12	Boot and Shoe Making
36	Boots, Shoes and Leggings
175	Boring or Penetrating the Earth
215	Bottles and Jars
188	Brakes
14	Bridges
300	Brush, Broom and Mop Making
15	Brushing, Scrubbing and General Cleaning
24	Buckles, Buttons, Clasps, Etc.
441	Buoys, Rafts, and Aquatic Devices
17	Butchering
79	Button Making
40	Card, Picture and Sign Exhibiting
502	Catalyst, Solid Sorbent, or Support Therefor, Product or Process of Making
59	Chain, Staple and Horseshoe Making
297	Chairs and Seats
194	Check-Actuated Control Mechanisms
436	Chemistry: Analytical and Immunological Testing
260	Chemistry, Carbon Compounds
204	Chemistry, Electrical and Wave Energy
429	Chemistry, Electrical Current Producing Apparatus, Product and Process
71	Chemistry, Fertilizers
518	Chemistry Fischer-Tropsch Processes; or Purification or Recovery of Products Thereof
585	Chemistry, Hydrocarbons
423	Chemistry, Inorganic
435	Chemistry: Molecular Biology and Microbiology
530	Chemistry, Natural Resins or Derivatives Peptides or Proteins; Lignins or Reaction Products Thereof
23	Chemistry, Physical Processes
279	Chucks or Sockets
209	Classifying, Separating and Assorting Solids
134	Cleaning and Liquid Contact with Solids
292	Closure Fasteners
160	Closures, Partitions and Panels, Flexible and Portable
192	Clutches and Power-Stop Control
118	Coating Apparatus

CLASSES ARRANGED IN ALPHABETICAL ORDER—Continued

CLASS	Title of Class
401	Coating Implements with Material Supply
427	Coating Processes
341	Coded Data Generation or Conversion
372	Coherent Light Generators
453	Coin Handling
431	Combustion
342	Communications, Directive Radio Wave Systems and Devices (e.g., Radar, Radio Navigation)
340	Communications, Electrical
367	Communications, Electrical: Acoustic Wave System and Devices
343	Communications, Radio Wave Antennas
252	Compositions
501	Compositions: Ceramic
106	Compositions, Coating or Plastic
7	Compound Tools
159	Concentrating Evaporators
193	Conveyers, Chutes, Skids, Guides and Ways
198	Conveyers, Power-Driven
406	Conveyors, Fluid Current
147	Coopering
460	Crop Threshing or Separating
380	Cryptography
30	Cutlery
407	Cutters, For Shaping
83	Cutting
408	Cutting by Use of Rotating Axially Moving Tool
329	Demodulators
433	Dentistry
232	Deposit and Collection Receptacles
222	Dispensing
202	Distillation: Apparatus
203	Distillation: Processes, Separatory
201	Distillation: Processes, Thermolytic
424	Drug, Bio-Affecting and Body Treating Compositions
514	Drug, Bio-Affecting and Body Treating Compositions
34	Drying and Gas or Vapor Contact with Solids
369	Dynamic Information Storage or Retrieval
360	Dynamic Magnetic Information Storage or Retrieval
172	Earth Working
434	Education and Demonstration
219	Electric Heating
313	Electric Lamp and Discharge Devices
314	Electric Lamp and Discharge Devices, Consumable Electrodes
315	Electric Lamp and Discharge Devices, Systems
445	Electric Lamp or Space Discharge Component or Device Manufacturing
363	Electric Power Conversion Systems
392	Electric Resistance Heating Devices
381	Electrical Audio Signal Processing Systems, and Devices
364	Electrical Computers and Data Processing Systems
439	Electrical Connectors
310	Electrical Generator or Motor Structure
377	Electrical Pulse Counters, Pulse Dividers or Shift Registers: Circuits and Systems
338	Electrical Resistors
307	Electrical Transmission or Interconnection Systems
320	Electricity, Battery and Condenser Charging and Discharging
200	Electricity, Circuit Makers and Breakers
174	Electricity, Conductors and Insulators
361	Electricity, Electrical Systems and Devices
337	Electricity, Electrothermally or Thermally Actuated Switches
335	Electricity, Magnetically Operated Switches, Magnets and Electro-Magnets
324	Electricity, Measuring and Testing
318	Electricity, Motive Power Systems
388	Electricity, Motor Control Systems
323	Electricity, Power Supply, or Regulation Systems
322	Electricity, Single Generator Systems
191	Electricity, Transmission to Vehicles

CLASSES ARRANGED IN ALPHABETICAL ORDER—Continued

CLASS	Title of Class
902	Electronic Funds Transfer
187	Elevators
227	Elongated-Member-Driving Apparatus
474	Endless Belt Power Transmission Systems and Components
229	Envelopes, Wrappers and Paperboard Boxes
371	Error Detection/Correction and Fault Detection/ Recovery
37	Excavating
411	Expanded, Threaded, Driven, Headed, Tool-Deformed, or Locked-Threaded Fastener
92	Expansible Chamber Devices
149	Explosive and Thermic Compositions or Charges
168	Farriery
256	Fences
42	Firearms
182	Fire Escapes, Ladders, Scaffolds
169	Fire Extinguishers
43	Fishing, Trapping and Vermin Destroying
383	Flexible Bags
141	Fluent Material Handling, with Receiver or Receiver Coacting Means
137	Fluid Handling
303	Fluid-Pressure Brake and Analogous Systems
416	Fluid Reaction Surfaces (i.e., Impellers)
239	Fluid Sprinkling, Spraying and Diffusing
426	Food or Edible Material: Processes, Compositions and Products
99	Foods and Beverages: Apparatus
450	Foundation Garments
410	Freight Accommodation on Freight Carrier
44	Fuel and Related Compositions
110	Furnaces
261	Gas and Liquid Contact Apparatus
48	Gas, Heating and Illuminating
55	Gas Separation
409	Gear Cutting, Milling, or Planing
935	Genetic Engineering: Recombinant DNA Technology, Hybrid or Fused Cell Technology and Related Manipulations of Nucleic Acids
33	Geometrical Instruments
65	Glass Manufacturing
294	Handling, Hand and Hoist-Line Implements
54	Harness
56	Harvesters
165	Heat Exchange
432	Heating
237	Heating Systems
108	Horizontally Supported Planar Surfaces
368	Horology: Time Measuring Systems or Devices
405	Hydraulic and Earth Engineering
362	Illumination
382	Image Analysis
494	Imperforate Bowl, Centrifugal Separators
254	Implements or Apparatus for Applying Pushing or Pulling Force
376	Induced Nuclear Reactions, Systems and Elements
336	Inductor Devices
373	Industrial Electric Heating Furnaces
123	Internal-Combustion Engines
63	Jewelry
277	Joint Packing
403	Joints and Connections
289	Knots and Knot Tying
280	Land Vehicles
278	Land Vehicles, Animal Draft Appliances
296	Land Vehicles, Bodies and Tops
298	Land Vehicles, Dumping
301	Land Vehicles, Wheels and Axles
69	Leather Manufactures
122	Liquid Heaters and Vaporizers
210	Liquid Purification or Separation
70	Locks

CLASSES ARRANGED IN ALPHABETICAL ORDER—Continued

CLASS	Title of Class
184	Lubrication
74	Machine Elements and Mechanisms
282	Manifolding
493	Manufacturing Container or Tube from Paper; or Other Manufacturing from a Sheet or Web
440	Marine Propulsion
414	Material or Article Handling
73	Measuring and Testing
124	Mechanical Guns and Projectors
186	Merchandising
72	Metal Deforming
164	Metal Founding
228	Metal Fusion Bonding
76	Metal Tools and Implements, Making
148	Metal Treatment
29	Metal Working
266	Metallurgical Apparatus
196	Mineral Oils: Apparatus
208	Mineral Oils: Processes and Products
299	Mining or *in situ* Disintegration of Hard Material
328	Miscellaneous Electron Space Discharge Device Systems
16	Miscellaneous Hardware
332	Modulators
180	Motor Vehicles
91	Motors, Expansible Chamber Type
185	Motors, Spring, Weight and Animal Powered
49	Movable or Removable Closures
800	Multicellular Living Organisms and Unmodified Parts Thereof
370	Multiplex Communications
84	Music
163	Needle and Pin Making
351	Optics, Eye Examining, Vision Testing and Correcting
353	Optics, Image Projectors
356	Optics, Measuring and Testing
352	Optics, Motion Pictures
350	Optics, Systems and Elements
89	Ordnance
532	Organic Compounds—Part of the Class 532-570 Series
534	Organic Compounds—Part of the Class 532-570 Series
536	Organic Compounds—Part of the Class 532-570 Series
540	Organic Compounds—Part of the Class 532-570 Series
544	Organic Compounds—Part of the Class 532-570 Series
546	Organic Compounds—Part of the Class 532-570 Series
548	Organic Compounds—Part of the Class 532-570 Series
549	Organic Compounds—Part of the Class 532-570 Series
552	Organic Compounds—Part of the Class 532-570 Series
556	Organic Compounds—Part of the Class 532-570 Series
558	Organic Compounds—Part of the Class 532-570 Series
560	Organic Compounds—Part of the Class 532-570 Series
562	Organic Compounds—Part of the Class 532-570 Series
564	Organic Compounds—Part of the Class 532-570 Series
568	Organic Compounds—Part of the Class 532-570 Series
570	Organic Compounds—Part of the Class 532-570 Series
331	Oscillators
224	Package and Article Carriers
53	Package Making
162	Paper Making and Fiber Liberation
512	Perfume Compositions

CLASSES ARRANGED IN ALPHABETICAL ORDER—Continued

CLASS	Title of Class
355	Photocopying
354	Photography
358	Pictorial Communication; Television
285	Pipe Joints or Couplings
138	Pipes and Tubular Conduits
475	Planetary Gear Transmission Systems and Components
47	Plant Husbandry
111	Planting
PLT	Plants
264	Plastic and Nonmetallic Article Shaping or Treating: Processes
425	Plastic Article or Earthenware Shaping or Treating: Apparatus
419	Powder Metallurgy—Processes
60	Power Plants
100	Presses
290	Prime-Mover Dynamo Plants
283	Printed Matter
101	Printing
422	Process Disinfecting, Deodorizing, Preserving or Sterilizing, and Chemical Apparatus
623	Prosthesis (i.e., Artificial Body Members), Parts Thereof or Aids and Accessories Therefor
375	Pulse or Digital Communications
417	Pumps
150	Purses, Wallets, and Protective Covers
250	Radiant Energy
430	Radiation Imagery Chemistry—Process, Composition or Product
213	Railway Draft Appliances
258	Railway Mail Delivery
105	Railway Rolling Stock
246	Railway Switches and Signals
295	Railway Wheels and Axles
104	Railways
238	Railways, Surface Track
220	Receptacles
503	Record Receiver Having Plural Leaves or a Colorless Color Former, Method of Use or Developer Therefor
346	Recorders
62	Refrigeration
235	Registers
152	Resilient Tires and Wheels
404	Road Structure, Process and Apparatus
901	Robots
418	Rotary Expansible Chamber Devices
415	Rotary Kinetic Fluid Motors or Pumps
464	Rotary Shafts, Gudgeons, Housings and Flexible Couplings for Rotary Shafts
109	Safes, Bank Protection and Related Devices
234	Selective Cutting (e.g., Punching)
437	Semiconductor Device Manufacturing: Process
225	Severing by Tearing or Breaking
112	Sewing
271	Sheet Feeding or Delivering
270	Sheet-Material Associating
413	Sheet Metal Container Making
114	Ships
116	Signals and Indicators
241	Solid Material Comminution or Disintegration
206	Special Receptacle or Package
75	Specialized Metallurgical Processes, Compositions for Use Therein, Consolidated Metal Powder Compositions,
267	Spring Devices
365	Static Information Storage and Retrieval
249	Static Molds
52	Static Structures, e.g., Buildings
428	Stock Material or Miscellaneous Articles
125	Stone Working
126	Stoves and Furnaces
127	Sugar, Starch and Carbohydrates

CLASS	Title of Class
505	Superconductor Technology-Apparatus, Material, Process
248	Supports
312	Supports, Cabinet Structures
211	Supports, Racks
128	Surgery
600	Surgery
604	Surgery
606	Surgery
520	Synthetic Resins or Natural Rubbers—Part of the Class 520 Series
521	Synthetic Resins or Natural Rubbers—Part of the Class 520 Series
522	Synthetic Resins or Natural Rubbers—Part of the Class 520 Series
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526	Synthetic Resins or Natural Rubbers—Part of the Class 520 Series
527	Synthetic Resins or Natural Rubbers—Part of the Class 520 Series
528	Synthetic Resins or Natural Rubbers—Part of the Class 520 Series
455	Telecommunications
178	Telegraphy
379	Telephonic Communications
135	Tents, Canopies, Umbrellas and Canes
87	Textiles, Braiding, Netting and Lace Making
26	Textiles, Cloth Finishing
19	Textiles, Fiber Preparation
68	Textiles, Fluid Treating Apparatus
38	Textile, Ironing or Smoothing
66	Textiles, Knitting
28	Textiles, Manufacturing
57	Textiles, Spinning, Twisting and Twining
139	Textiles, Weaving
374	Thermal Measuring and Testing
131	Tobacco
132	Toilet
173	Tool Driving or Impacting
81	Tools
291	Track Sanders
212	Traversing Hoists
190	Trunks and Hand Carried Luggage
334	Tuners
82	Turning
199	Type Casting
276	Type Setting
400	Typewriting Machine
27	Undertaking
171	Unearthing Plants or Buried Objects
251	Valves and Valve Actuation
293	Vehicle Fenders
98	Ventilation
333	Wave Transmission Lines and Networks
177	Weighing Scales
166	Wells
305	Wheel Substitutes for Land Vehicles
157	Wheelwright Machines
231	Whips and Whip Apparatus
242	Winding and Reeling
245	Wire Fabrics and Structure
140	Wireworking
142	Wood Turning
217	Wooden Receptacles
144	Woodworking
269	Work Holders
378	X-Ray or Gamma Ray Systems or Devices

DESIGN CLASSES ARRANGED IN ALPHABETICAL ORDER

CLASS	Title of Class
D30	Animal Husbandry
D2	Apparel and Haberdashery
D22	Arms, Pyrotechnics, Hunting, Fishing, and Trapping Equipment
D4	Brushware
D25	Building Units and Construction Elements
D29	Devices and Equipment Against Fire Hazards, for Accident Prevention and for Rescue
D1	Edible Products
D23	Environmental Heating and Cooling, Fluid Handling and Sanitary Equipment
D7	Equipment for Preparing or Serving Food or Drink not Elsewhere Specified
D13	Equipment for Production, Distribution or Transformation of Energy
D6	Furnishings
D21	Games, Toys, and Sports Goods
D11	Jewelry, Symbolic Insignia and Ornaments
D26	Lighting
D15	Machines, Not Elsewhere Specified
D34	Material or Article Handling Equipment
D10	Measuring, Testing or Signalling Instruments
D24	Medical and Laboratory Equipment
D99	Miscellaneous
D17	Musical Instruments
D19	Office Supplies, Artists' and Teachers' Materials
D9	Packages and Containers for Goods
D28	Pharmaceutical, Cosmetic Products, and Toilet Articles
D16	Photography and Optical Equipment
D18	Printing and Office Machinery
D14	Recording, Communication or Information Retrieval Equipment
D20	Sales and Advertising Equipment
D5	Textile, or Paper Yard Goods; Sheet Material
D27	Tobacco and Smokers' Supplies
D8	Tools and Hardware
D12	Transportation
D3	Travel Goods and Personal Belongings
D32	Washing, Cleaning, or Drying Machine

	Class	Subclass
A		
A-frame Structure	D25	29
Abacus	434	203+
Design	D18	6+
Abattoir (See Butchering)		
Abdominal		
Supporters	450	94+
Abietic Acid	562	404+
Esters	560	7
Naturally occuring mixtures	530	200+
Abietyl Alcohol	568	714
Ablative Fluids	169	DIG. 2
Abort		
Indicator of aborted start	431	15
Motor with abort means	60	379
Abrading (See File or Filing; Grinding)	51	
Abradant-filled bags	51	294
Attachments for cutlery	51	241R+
Comminuting solid material by	241	
Apparatus	241	31+
Hard material in situ	299	
Process	241	1+
Cutlery combined	30	138+
Dental apparatus	433	142
Motor driven	433	125
Filter block cleaning by	210	353
Frames and mounts	51	166R+
Fruit peeler and parer	99	588+
Grain hulling		
Apparatus	99	600+
Processes	426	482+
Graters for vegetables	241	273.1+
Hand held power tool	D 8	61+
Horseshoe calk sharpeners	168	46
Kerf cutting in the earth	299	29+
Lubricant by fluid for feeding	184	60
Machinery design	D15	124+
Machines	51	2R+
Manicuring		
Compound tools	132	75.6
Implements	132	76.4
Mask or stencil	51	262R
Utilizing	51	310+
Material	51	293+
Methods	51	281R+
Processes	51	281R+
Razor combined	30	138+
Saw sharpening	76	31+
Severing by	51	98R
Sharpeners	D 8	91+
Test by	73	7
Tool carrier	51	330+
Tool making	51	293+
Tool, flexible member	51	394+
Tool, rigid	51	204+
Traveling band	51	135R+
Tumbling device	51	163.1+
Water purification		
Chemical feeders	241	39
Chemical treatment	210	198.1+
Wearing in	29	89.5
With glass working	65	61
Work feeder	51	215R+
Work holder	51	216R+
Work rests	51	238R+
Work tables	51	240R+
Abrasives	51	293+
Belts	51	357
Detergents having	252	89.1+
Discs	51	358+
Lubricants having	252	11
Metal stock particulate	75	231
Silicon carbide	51	307+
Stock material	428	143+
Metallic	428	932*
Tungsten carbide	51	307+
Absorbents and Absorbers (See Sorbents)		
Absorber shading, manually adjusts	126	DIG. 1
Bandages	128	155+
Design	D24	49
Carbohydrate treatment with	127	55
Chemical purification	127	49
Carbon	502	416
Catamenial & diaper	604	358+
Designs	D24	50
Cigar & cigarette tips	131	331
Coating	126	901*
Compositions	502	400+
Chemical agents	252	184
Colloid resolving or inhibiting	252	322+
Drying	252	194
Getters for electric lamps etc	252	181.1+
Liquid containing	252	1
Refrigerant	252	69
Converting mineral oil using	208	46+
Dehumidification of gas with refrigeration	62	271
Processes	62	94
Dehydrating mineral oil with	208	188
Distilled vapor treating	203	41
Apparatus	202	183+
Drying solids (See blotter)	34	95+
Sheet form for printed matter	101	419
Web form for printed matter	101	417+
Web or sheet form absorbent	34	94
Electric battery gas vents	429	86
Gas separators	55	
Drier combined with	34	71
Gas storing	206	.6+
Liquefied gas handling	62	46.1+
Producing	62	17+
Liquid separating, by	210	660+
Chromatography	210	665+
Material separation by		
Chemical sugar refining processes	127	49
Combined drying	34	71
Dehydrating oil	208	188
Distillation process combined	203	41
Distillation system combined	202	183+
Drying	34	95
Drying vapor treatment	34	80+
From gases	55	
Liquid purification	210	660+
Chromatography	210	656+
Mineral oil separation	208	341+
Physical sugar refining processes	127	55
Purification of fats etc	260	427
Smoking device smoke treating	131	203+
Tobacco products smoke treating	131	331
Neutron	376	339
Other drying means combined	34	71
Purification of fats oils waxes	260	427
Receptors	604	358+
Refrigeration producing	62	476+
Automatic	62	141+
Processes	62	101+
Smoking devices used with	131	203+
Surgical pads	604	358+
Vacuumizing a chamber	62	268+
Wipers & brushes	15	
Absorber, Nuclear Energy	250	515.1+
Radar	342	1
Absorption (See Absorbents)		
Type frequency measurements	324	81
Absorptive Concrete Form Lining	249	189
Abuse, Drugs of	436	901*
Abutment for Bridges	14	26
AC DC Converter	363	
Accelaration		
Electric		
Auto stop light	340	467
Motor system	388	842+
Inertia switch	200	61.45 R
Vehicle light system	315	77+
Accelerator	74	513
Fermentations with	435	1+
Hand control with	74	482
Polymers prepared from	520	1+
Accelerometer		
Electrical	324	
Piezoelectric	310	329
Non-electrical	73	514+
Accident Preventing Devices (See Safety Devices)	D29	
Acclimatization of Ferments	435	245
Accordion		
Musical instrument	84	376R
Design	D17	3+
Music digest	84	DIG. 15
Pleating or folding	270	30+
Coating device for accordion folding wall	401	153
Straps, tighteners	24	68AS
Accounting		
Binder device releasably engaging aperture or notch of sheet	402	
Book strips & leaves	281	
Calculating	235	
Computer controlled, monitored	364	406
Manifolding	282	
Perforated article assorting	209	613
Printed matter	283	
Punch selector	234	
Typing	400	
Accumulator	425	DIG. 1
Boiler steam storage	122	35
Calculating totalizer	235	
Variator with accumulator	235	61FC
Combustion products power plants	60	731
Cookers fireless	126	273.5
Electric battery	429	149+
Fluid pressure compensator	138	26+
Heat absorber structure	126	400
Heat radiator	237	75
Heat storage	165	18
Regenerator	165	4+
Hill planting	111	51
Hydraulic	138	26+
Power plant	60	413+
Power plant	60	659
Making	29	890.6
Motor steam exhaust	60	659
Pump combined	417	540+
Refrigerant	62	503
Automatic	62	174
Storage battery	429	
Vehicle heater	237	44
Water heater combined	126	375
Acetals	568	590+
Cyclic 5 membered ring	549	430+
Cyclic 6 membered ring	549	369+
Acetanilide	564	218
Acetate	536	69+
Cellulose	536	69+
Esters	560	231+
Lead	556	105
Light metal salts	562	607
Polyvinyl (See also synthetic resin or natural rubber)	526	319
Silk (See artificial silk)		
Acetic Acid	562	607
Dehydration of	203	16
Acetoacetic Acid	562	577
Esters	560	178
Acetone	568	382
Fermentative production	435	150+
Purification or recovery	568	411
Acetonitrile	558	435
Acetophenone	568	335
Acetosalicylic Acid	560	143
Acetyl		
Chloride	562	840
Acetylation (See Acetate)		
Amines	564	137+
Ketene production	568	301
Phenols	560	130+
Textiles	8	121
Acetylene (See Triple Bond Hydrocarbon)		
Aldehydes from	568	458
Burner		
Lantern	362	160
Cylinder	206	.6+
Electrostatic field or electrical discharge production	204	171
Esters from	560	242
Gas tanks	220	3
Generation from carbide	48	
Package or receptacle	206	.6+
Separating from gases	55	63+
Six membered hetero N compounds from	546	253
Synthesis of	585	534+
Synthetic resins from (See also synthetic resin or natural rubber)	526	285
Vinyl halides from	570	233
Achromatic Image		
From chromatic	430	367
From organic compound	430	402
To organic compound	430	565
With chromatic	430	364
Acid (See Type of Acid)		
Absorbing agents for	252	189
Acidizing or formation destroying in well treating	252	8.553
Activated (See clay)		
Anhydride		
Carbocyclic or acyclic	562	869+
Cyclic polycarboxylic	549	231+
Electrolytic synthesis of	204	103+
Inorganic, phosphorus compound	423	304+
Inorganic, sulfur compound	423	511+

	Class	Subclass
Catalyst regeneration with	502	27
Organic	502	28
Containers	206	524.1+
Detergents containing	252	142+
Electrolytic synthesis of	204	103+
Organic	562	
Carboxylic halides	562	840
Halides	562	800+
Higher fatty electric discharge treatment	204	167
Higher fatty electromagnetic wave treatment	204	157.6
Hydrocarbon purification using	585	866
Phosphate fertilizer	71	33+
Acidophilus Milk, Cream, Buttermilk	426	71
Acorn Type Electronic Tube	313	
Acoustics (See Sound)	181	
Building construction	52	144+
Cells		
Altering optical element	350	358
Isolation of motion picture housing and supports	352	35
Coupler		
Combined telephone-phonograph	379	78
Design	D14	242
Oscillators	331	155
Electrical, wave systems & devices	367	
Airborne shock-wave detection	367	906*
Collision avoidance	367	909*
Coordinate determination	367	907*
Doppler compensation systems	367	904*
Material level detection	367	908*
Noise reduction in nonseismic receiving system	367	901*
Particular well-logging apparatus	367	911*
Portable sonar devices	367	910*
Side lobe reduction or shading	367	905*
Sonar time varied gain control	367	900*
Speed of sound compensation	367	902*
Transmit-receive circuitry	367	903*
Energy measuring	73	861.25+
Fluid pressure leak detector	73	40.5 A
Holography, vibration measuring	73	603
Measuring instruments	73	570+
Stock material	181	284+
Target for golf	273	181C
Transducer making	29	594
Transducer making	29	602.1
TV		
Mechanical-optical scanning by acoustic wave	358	201
Picture projection device	358	235
Wall construction	52	144+
Acridine	546	102+
Anthrone or anthraquinone nuclei	546	
Azo compounds	534	753+
Acridone Dye	8	662
Acriflavine	546	104+
Acrilan T M (polyacrylonitrile Copolymers)	526	342
Acrolein		
Polymers (See also synthetic resin or natural rubber)	526	315
Acromycines	546	62+
In drug	514	285
Acrylan T M (polyacrylonitrile Methyl Methacrylate)	526	329.4
Acrylonitrile (See also Synthetic Resin or Natural Rubber)	526	341
Actinic Glass	501	900*
Developing by heat	65	30.1+
Actinide Series Metals (See Radioactive)		
Alloys	420	1+
Compositions	252	625
Electrolysis	204	1.5
Heat treatment	148	132
Metallurgy	75	393+
Nuclear fuels	376	409+
Organic compounds	534	11+
Actinometer	356	213+
Actinomycetales	435	169
X-art collections	435	822*
Actinospectacin	549	361
Activated Ergosterol	552	653
Activating Carbon	502	180+
Activation		
Lamp filaments	445	6
Of catalyst before use in hydrocarbon synthesis	585	906*
Vitamins in foods	426	72+
Active Solid State Devices (See Transistor)	357	
Actuated and Actuation (See Type of Device Actuated as Door Gate Valve, etc or Means Employed to Actuate as Cam, Gear, Motor Pawl, Speed Responsive Device, Spring Thermostat)		
Acupuncture Test, Electric	128	735
Acupuncture, X-art	128	907*
Acyclic Hydrocarbon (See Diolefin; Olefin; Paraffin; Triple Bond)		
Acyloins	568	303+
Adamantane Synthesis	585	352
Adapter		
Electrical connector socket	439	638+
Pipe joint	285	176+
Adding		
Dispenser cycle totalizer	222	36+
Machine	235	
Design	D18	3+
With recorder	235	58R+
Pencil	235	64
Addressing Machine	101	47+
Address printers	D18	13+
Plates	101	369+
Adducts		
Stabilizing an enzyme by	435	188
Urea	564	1.5+
Adenine	544	277
Adenoid Removal Devices	606	110
Adhesive		
Applying		
Stacking apparatus with means to apply adhesive to articles	414	904*
To pluck fowls	17	11.1 A
With laminating	156	
Bonding (See extensive digest list)	156	
Apparatus	156	346+
Methods	156	60+
Brackets attached by	248	205.3+
Carrier component having adherent surface	224	901*
Compositions		
Alkali metal silicate	106	600+
Biocide with	424	
Carbohydrate gum	106	205+
Cellulose liberation liquor	106	123.1
Core oils	106	38.2+
Protein	106	124+
Rubber ctg (See synthetic resin or natural rubber)	520	1+
Starch	106	210+
Synthetic resin ctg (See synthetic resin or natural rubber)	520	1+
Anerobic	523	176
Dental	523	116
Optical cement	523	168
Surgical	523	118
Vermin catching, trapping	424	77
Digest	24	DIG. 11
Fastener for diaper	604	389+
Insect catching and destroying	424	77
Insect trap	43	114+
Jewelry	63	DIG. 1
Manifolding digest	282	DIG. 2
Metal working involving	29	DIG. 1
Moisteners	118	
Envelope sealing combined	156	441.5+
Process of forming	427	207.1+
Separator for sheet feeding	271	33
Tape	428	261+
Coated on both sides	427	208
Coated on outermost layer	428	343
Coating process	427	207.1
Holder with edge for tearing	225	6+
Laminated	428	343+
Removable layer	428	40+
Rolls	206	411
Testing	73	150A
Toys, detachably adhesive	446	85+
X-art, special receptacle or package	206	813*
Adipic Acid	562	590
Adjuncts		
Static mold	249	205+
Sink head or hot top	249	202
Adjustable (See Device to be Adjusted)		
Adrenalin T M	564	365
Medicine containing	424	520+
Adrenochrome	548	512
Adrenocorticotraphin Acth	530	306
Adrenosterone	552	621
Adsorbent (See Sorbent)		
Advancing		
Device for tool	173	141+
Automatic	173	4+
Cyclic self acting	173	19
Impacting device combined	173	112+
Material of indeterminate length	226	
Advertising		
Aerial	40	212+
Calendars	40	107
Card support	D 6	512
Design	D20	10+
Display cards	40	124.1
Mirror or reflector devices	350	600+
Mounting bracket for sign	D 8	354+
Printed matter	283	56
Show boxes and cards	D20	40
Sign exhibiting	40	
Skywriting	40	213
Telegraphophones & annunciators	369	
Vehicle body	296	21
Adzes	30	308.1
Design	D 8	76
Aeration		
Aerator	D23	213+
Agitation mixers	366	101+
Bait container	43	57
Dispensing with gas agitating	222	195
Distillation separatory		
Distillate	202	203
Vapor	202	201
Faucet attachment for	239	428.5
Digest	261	DIG. 22
Food, cereal puffing	99	323.4
Liquid purification		
Contact surface means	210	150+
Process, biological	210	620+
Oxidation	210	758+
With flotation	210	703+
Submerged fluid inlet	210	220+
Oxygen transfer technique	435	818*
Pumping by aerating liquid column	417	108+
Sewage process	210	620+
Diffusers	261	DIG. 7
Rotating	261	DIG. 71
Aerial (See Antenna)		
Bombs	102	382+
Cableway	104	112+
Camera	354	65+
Films, radiation imagery	430	928*
Fire fighting apparatus	244	136
Photo instruments	33	1A
Sighting	33	229+
Aerogram Design	D19	2
Aerometer	73	30.1+
Aeronautics	244	
Aeroplane (See Aircraft)	244	
Aerosol T M	252	305
Aerostatic Exhibiting Devices	40	212
Skywriting	40	213
Aerosteam Engines	60	200.1+
Aesculin	536	18.1
Affixing Apparatus		
Label pasting and paper hanging	156	
Sheet metal container making	413	
Afghan Blanket	D 6	603
African Violets	PLT	69
Afterburner, Reaction Motor with	60	261
Aftertreatment of Polymers		
Chemically from ethylenic monomers only	525	326.1+
Physically	528	480+
Agar	536	3
Age Hardening		
Ferrous alloys	148	12.3
Ferrous alloys	148	142
Nonferrous alloys	148	12.7 R
Nonferrous alloys	148	158+
Permanent magnet material	148	102
Agglomerating		
Apparatus	425	222
Inorganic compounds	23	313R+
Metal powder or scrap	425	222
Ores	75	746+
Preventing		
Agents	252	381+
Comminution combined	241	16
Aggregate and Pellet	425	DIG. 101
Agitating (See Compacting, Jarring, Jogging, Mixer, Stirrer, Vibrators)	366	

	Class	Subclass
Abrading tumbler	51	163.1+
Processes	51	313+
Sand blast combined	51	422
Agitator discharging	366	184
Receptacle moving	366	187
Agitator feeding	366	150+
Condition responsive control of	366	151
Liquid injector in mixing chamber	366	167
Suction	366	163+
Tangential to mixing chamber	366	165
Agitator mixing chamber movable	366	219+
Oscillating	366	237+
Rotating	366	220
Agitator mixing chamber stationary	366	341
With stirrer	366	241
Agitator plural mixing chamber		
Mortar	366	14
Moving	366	235
Rubber & heavy plastic	366	91
Agitator stirrer	366	343+
Cover combined	366	242+
Bathtubs	4	584+
Bearing lubricant	384	395
Axle bearing	384	384
Churn butterworker combined	99	459
Coating implement combined	401	4
Comminuting combined	241	98
Concentrating evaporator	159	25.1
Distillation apparatus combined	202	
Distillation processes combined	201	
Distillation processes combined	203	
Electrode agitator	204	222+
Liquid electrode	204	221
Rotary receptacle	204	213+
Electrolytic cell	204	273
Diaphragm type	204	261
Feeders and conveyors		
Article dispensers	221	200+
Comminutor feeder	241	249
Dispensing	222	
Fluid current conveyor	406	86+
In intake receptacle	406	134+
Gravity flow drier	34	166
Kiln feeder	34	203
Reciprocating conveyors	198	750+
Pushers	198	736+
Sifter feeder	209	245
Stationary receptacle drier	34	179
Fuels and oils		
Cracking assistant	208	146+
Distillation assistant	201	
Gas generator fuel	48	85.1+
Oil distillation process	208	347+
Oil vaporizing apparatus	196	123+
Furnace grate	126	155+
Gas injection, effected by	366	101+
Dispensing	222	195
Gas and liquid contact	261	
Mortar mixers	366	10+
Mortar mixing processes	366	3+
Heating or cooling combined		
Boiling apparatus	99	409
Canning apparatus	99	371
Coffee and tea making apparatus	99	287
Congealed product producers	62	342+
Congealed product producing	62	68+
Cooking apparatus	99	348
Cooled heat transfer liquid	62	435
Cooled withdrawable liquid	62	392
Drying gas agitator	34	241
Gravity flow tube drier	34	166
Heat exchange apparatus	165	109.1
Heating furnace	432	80
Kiln zigzag flow	34	203+
Mixing	366	144+
Mortar mixer heater or cooler	366	22+
Processes	366	7
Rotary drier	34	108+
Stationary receptacle drier	34	179+
Vibrating drier	34	164
Water heater	126	387
Zigzag flow drier	34	171+
Insect catcher		
Oscillating plant leaf agitator	43	143
Rotating plant leaf agitator	43	142
Liquid heater cleaner	122	380
Liquid jet	366	167+
Amalgamator agitator	209	66
Dispensing assistant	222	195
Flotation apparatus	209	170
Fluid current conveyor	406	
Injector for gas and liquid contact	261	76+
Mortar mixing apparatus	366	10
Mortar mixing processes	366	3
Multiple jet gas and liquid contact	261	40+
Multiple screen sifter	209	312
Radiant energy treatment combined	250	428+
Reciprocating sifter	209	321
Sifter cleaner	209	380
Superposed screen sifter	209	318
Separator		
Amalgamators	209	50+
Centrifugal filter	210	360.1+
Electrical liquid purification	204	307
Filter	210	407
Liquid suspension	209	155+
Magnetic	209	225+
Sifter	209	233+
Spittoons	4	278
Textile		
Fluid treating	68	
Fluid treating processes	8	159
Vibratory support or receptacle	366	108+
Dispenser part	222	196+
Drying apparatus	34	164
Filled bag or receptacle	53	525
Gas generator fuel	48	85.1
Heat exchange receptacle	165	86+
Movable dispensing container	222	161
With glass making apparatus	65	178
Agraffe	84	211
Agriculture & Agricultural (See Plants, Animal, or Implement Type)		
Implements		
Design	D 8	1+
Dibbles	111	99
Fruit gatherers	56	328.1+
Hand cultivators	172	371+
Hand cutters	56	239+
Hand rakes	56	400.1+
Machinery		
Boring or penetrating the earth	175	
Diggers	171	
Digging & recovering buried objects	171	
Harrows	172	
Harvesters	56	
Hydraulic & earth engineering	405	
Net hand-held	D15	10
Planters	111	
Plows	172	
Wells	166	
Post or column	D25	131
Aiken (azabicycloheptylamine)	526	219.6
Aikrene	244	90R
Aim (See Sight)		
Aiming		
Direct sighting	33	227+
Optical	356	247+
Radar, external device	342	61+
Gun	342	67
Air (See Gas; Pneumatic)		
Air injected liquid heaters & vaporizers	122	5.51
Airbag passenger restraints	280	728+
Aircooled engines	123	41.56+
Analysis	73	31.1
Auxiliary inlet carburetors	261	DIG. 1
Blast or suction		
Dispensed material entraining	222	630+
In conduit or guide	406	
Dispensed material propelling	222	195
Fiber liberation	19	9
Filter cleaning	210	407
Solid material comminution apparatus	241	38+
Solid material comminution process	241	15+
Blast or suction cleaning		
Blast only	15	405+
Both blast and suction	15	345+
Convertible type	15	328+
Ejectors for unstacking articles	414	795.5
Installed or fixed position devices	15	301+
Methods	134	
Tube blowers	15	316.1+
With dirt filter	15	347+
With mechanical agitator for work	15	363+
Blow molding needle or nozzle	425	535
Circulating shoe	36	3R
Cleaner (See air purification)		
Compressors	415	
Conditioning (See cooling; drying; disinfection; filter; heat; moistener; purifying; sterilizing)	D23	351+
Cooling	62	404+
Air coolers	261	DIG. 43
Aircooling	261	DIG. 3
Automatic	62	186+
Compressing and expanding	62	401+
Apparatus	62	401+
Automatic	62	172
Process	62	86+
Processes	62	89+
Dielectric capacitor	361	326+
Disinfecting or sterilizing	422	4
Apparatus	422	120+
Using heat transfer other than air	422	38
Displacement		
Funnels	141	297+
Portable receptacle filling	141	37
Distributor		
Register floor	98	103+
Register wall	98	108
Wick type fuel burner	431	298+
Drying	55	
Compositions	252	194
Ejection	425	DIG. 102
Feeding (See air mixer)		
Filled nuclear counter	376	108+
System	250	374
Flow meter	73	861+
Foil	244	123+
Heating	126	99R+
Industrial blast stoves, etc	432	214+
Impregnating inhaler	128	203.12
Inductor	336	199+
Instruments	33	DIG. 2
Line lubricators	261	DIG. 35
Manifold	198	955*
Mattresses	5	449+
Mixer		
Gas heating illuminating	48	180.1+
Internal combustion engine	123	527+
Liquid contact	261	
Solid contact	34	
Ventilators	98	38.1
Moistener	261	
Cabinet combined	312	31+
Fireplace attachments	126	508
Furnace hot air	126	113
Heat exchanger combined	165	60
Radiator combined	237	78R
Slew diffuser	239	34+
Stovepipe attachments	126	313
Ventilating floor register	98	105
Ventilating wall register	98	109
Monitor radioactivity	250	374+
Motor expansible chamber	91	
Dental plugger	433	120
Turbine	415	
Wind	416	
Pillows	5	441
Plane (See aircraft)	244	
Plugger dental	433	120
Port (See airport)		
Pressure indicator		
Pressure gage	73	700+
Tire deflation	116	34R
Propeller	416	
Aircraft type	416	
Pump (See pump)		
Purification	55	
Chemical	423	210
Raid shelter	109	
Screw	416	176
Separator	55	
Cleaning	55	282+
Speed measurement	73	181+
Suction cleaning	15	300.1+
Supply device for breathing	128	204.18+
Combined with fire fighting nozzles	239	270
Support for shaping-treating item	425	DIG. 2
Syringe thermal medicator	604	113+
Tank		
Filling portable receptacles	141	
Fluid pressure dispenser	222	394+
High pressure	220	3
Ship raising	114	52+
Spring wheels	152	10

	Class	Subclass
Tire inflater	222	3+
Tire inflater wheel carried	152	418+
Testing apparatus	73	37+
Tracer for pattern control	409	126+
Vehicle heating effected by circulating air	237	12.3 A
Washing apparatus	261	75+
Air Brake		
Fluid pressure operator	188	151R+
System control	303	
System testing	73	39
Vehicle fender combined	293	5
Vehicle momentum responsive	188	141
Air Brush	D23	223+
Air Conditioning (See Cooler)		
Air Gun	124	56+
Air Hammer Meter	173	90+
Noise muffler	181	230
Air Lock		
Caissons	405	9
Closures for	49	68
Diving bell combined	405	192
Pneumatic conveyer	406	169
Air Wick T M Composition		
Dispenser	239	44+
Airbag Passenger Restraints	280	728+
Steering wheel mount	280	777
Aircraft (See Airship; Balloon)	244	
Air cushion	180	116+
Air intake guard	55	306
Altitude indicator	33	328+
Angle or direction instrument	D10	67
Artillery	89	
Synchronized with propeller	89	133
Autogiro T M	244	17.11+
Toys	446	36+
Autorotating wing	244	17.11+
Balloons	244	31+
Gas cell construction	244	128
Boarding ramp design	D12	
Bomb sights	33	229
Buildings	52	86+
Tent	135	87+
Cabin air pressure maintenance	98	1.5
Cable or rail mounted	104	23.1+
Carrier, ship	114	261+
Control automatic	244	175+
Crash signal		
Radio	342	385+
Water dye	116	211
Design	D12	319+
Dirigible	244	24+
Discharging	244	137.1+
Inflatable evacuation slide	244	905
Drop bomb retarders	102	386+
Flares parachute	102	337+
Foil construction	244	123
Gas & liquid contact apparatus	261	DIG. 2
Ground effect	180	116+
Gun sights	33	233+
Gyroplane	244	17.11+
Hang glider	244	900+
Hangar	52	86+
Movable wall	52	64+
Helicopter	244	17.11+
Ice prevention	244	134R
Jet propulsion	60	200.1+
Kites	244	154
Landing gear or strut	244	100R+
Spring	267	2+
Lift modifiers	244	198+
Lights	362	62
Loading	244	137.1+
Locating lights	362	62
Maintenance vehicle	D12	14+
Mines aerial	102	405
Mobile stair for boarding	D34	30
Model airplane systems	244	190
Motion retarding device	244	113
Parachute	244	142+
Motor mount	248	554+
Navigation instruments	73	178R+
Operator training or testing	434	30+
Radio navigation simulation	434	239+
View simulation	434	38+
Ordnance mounts	89	37.16+
Pilot operated	244	220+
Pilotless control	244	190+
Propeller or airplane system	60	9?4+
Pyrotechnic	102	335+
Radio beacon for	342	385+
Radio controlled radar	342	36+
Radio course or bearing for	342	407+
Radio glide slope	342	410+
Radio receiver	455	345
Rockets	102	384
Simulations		
Inflatable toys	446	225
Velocipede	280	1.21
Velocipede occupant propelled	280	1.12
Stores ejectors	244	137.4
Bomb, flare, or signal	89	1.51+
Streamlining	244	130
Structural element strength measurement	73	802
Take off condition measuring	73	178T+
Take off signal calculation	364	427
Towed target	273	360+
Toys	446	230+
Design	D21	87+
Flying	446	34+
Ultralight	244	900+
Airfield	244	114R+
Airflow Responsive Switch	200	81.9 R
Airfoil		
Construction	244	123+
Lift modifiers	244	198+
Railway traction regulator	105	74
Shape	244	35R+
Airing Device for Bedclothes	5	506
Airport		
Airway signs, ground indicia	40	217
Arrangement landing field	244	114R
Bulletin boards	40	446+
Electric signaling systems	340	945+
Radio		
Beacon for	342	385+
Course or bearing	342	407+
Glide slope	342	410+
Security by metal detector systems	340	568+
Traffic analysis computerized	364	439
Traffic control systems (See airway)		
Airship (See Aircraft)		
Cabin pressure control	98	1.5
Control	244	96
Gas cell construction	244	128
Hull construction	244	125
Load attachment	244	127
Mooring devices	244	115+
Propulsion and sustenance	244	24
Skin construction	244	126
Airway Traffic Control Systems		
Beacons		
Electric signaling	340	947+
Illuminating	362	35
Radar type	342	385+
Rotating	342	398+
Mechanical	116	28R+
Radio		
Beacon	342	385+
Course	342	407+
Glide slope	342	410+
With position indicating	342	456
Aisle		
Inter-aisle article transfer	414	266+
Ajmaline	546	40
Alamine	562	575
Alarm (See Monitor; Signal)		
Boiler	122	504.2
Burglar		
Electric, approach operated	340	541+
For vehicle	340	426+
Mechanical	116	75+
Clock	368	244
Closure position	49	13+
Coffin	340	573
Design	D10	106
Gas		
Electrical	340	632+
Mechanical	116	67R
Heat exchanger combined	165	11.1
Light responsive	340	600+
Photoelectric system	250	200+
Lock combined	116	8+
Design	D 8	332
Noise exposure	340	540
Over telephone circuit	379	37+
Pipe joint combined	285	93
Register mechanism	235	128
System electrical	340	500+
Valve combined	137	558
Watches	368	244
Alathon T M (polyethylene)	526	352
Album	281	
Book binder sheet	402	79
Design	D19	26+
Display	40	152+
Fasteners	24	2
Leaves display	40	152+
Phonograph record		
Cabinet type	312	9+
Folder carrier indicia	40	359
Package type	206	311
Albumin	530	362+
Coating or plastic compositions containing	106	124+
Foods containing	426	656
Tests for	436	88+
Alcamine (See Alkamine)		
Alcohol	568	700+
Aldehyde	568	496+
Amines	564	503+
Beverages	426	592
Apparatus	99	275+
Breath alcohol	436	900+
Distillation		
Processes	203	
Stills	202	232+
Systems	202	152+
Electrolytic production	204	77
Ether	568	672+
Fermentation	435	161+
From olefines	568	895+
Fuel containing	44	436+
Hydrogen purification using	585	864
Hydrometers	73	32R+
Stove	126	43
Treatment		
Aging for beverages	426	
Aldehyde	568	420+
Acyclic	568	448+
Amine	564	502
Amine or ammonia reaction product	564	248
Aromatic	568	425+
Cellulose ether or ester composition containing	106	187
Fatty acid or ester containing	106	184
Fuel containing	44	437+
Hydrogen purification using	585	864
Polymer (See synthetic resin or natural rubber))		
Sulfonic acid aromatic	562	46
With carboxylic acid esters		
Acyclic	560	174+
Alicyclic	560	126
Aromatic	560	51+
Aldols	568	496+
Aldosterone	552	588
Aldoximes	564	253+
Ale (See Beer)		
Alfalfa	426	636
Alfin Catalysts	526	175
Algicide	71	67
Algin	536	3
Algocide Algicide	71	67
Alicyclic Carboxylic Acid Esters	560	1+
Alicyclic Hydrocarbon	585	22+
Purification of	585	800+
Synthesis of	585	350+
Alignment		
Screw drivers	81	451+
Tools for radio	81	
Alizarin	552	261
Alkadiene (See Dielefin)		
Alkali		
Aluminates	423	593+
Amids	423	351
Carbonates	423	421+
Preparation by electrolysis	204	87
Chemical agents for absorbing	252	193
Earth metal (See alkaline earth)		
Alloys	420	415
Lead	420	564
Carbonates	423	430+
Crystallization of compounds	23	304
Electrolytic synthesis	204	69+
Halides	423	
Hydroxides and oxides	423	635
Electrolic synthesis of	204	100
Electrolic treatment of	204	153
Mercury alloys by electrolysis	204	125
Nitrates	149	
Containing	149	61+

	Class	Subclass
Explosive	149	
Organic compounds	260	
Oxides	423	635
Peroxides	423	583
Phosphates	423	305+
Pigments fillers or aggregates	106	461+
Pyrometallurgy	75	605+
Refractory compositions ctg	501	123+
Sulphates	423	554+
Hydroxide preparation	423	641
By electrolysis	204	98+
Metal		
Alloys	420	400
Lead	420	564
Carbonates	423	419R+
Chemical agents containing	252	192
Chemical agents for absorbing	252	193
Crystallization of compounds	23	302R+
Electrolytic synthesis	204	68
Electrolytic synthesis of	204	98
Electrolytic synthesis of hydroxides and oxides	204	98+
Electrolytic treatment of hydroxides and oxides	204	153
Halides	423	462+
Hydroxides and oxides	423	592
Inorganic compound recovery	423	179
Mercury alloys by electrolysis	204	125
Misc. chemical manufacture	156	DIG. 71
Nitrates	149	
Explosive containing	401	118+
Organic compounds	260	
Oxy-halogen salt	423	472
Explosive	149	77
Phosphates	423	304+
Preparation	75	745
Pyrometallurgy	75	589
Solvents, sodium chloride & potassium chloride	422	902*
Sulphates	423	551
Nitrates	423	
Organic	260	
Oxids		
Packing	206	524.1+
Secondary battery		
Chromium cobalt or cadmium	429	
Iron	429	
Nickel	429	
Alkaline Earth		
Carbonates	423	430+
Metals & cds	156	DIG. 78
Oxides and hydroxides	423	635
Pyrometallurgy	75	605+
Silicates	423	326
Sulfates	423	554+
Sulfides	423	554
Alkaloids		
Biocides containing	424	
Cinchona	546	134+
Ergot	546	67+
Medicines containing	424	
Opium	546	44+
Solanum	546	124
Tobacco	546	282
Undetermined constitution	424	195.1
Alkamine		
Acyclic	564	503
Alkanoic esters	560	253
Monocyclic carboxylic acid esters	560	110
Monocyclic carboxylic acid esters	560	106+
Nitro carboxylic acid esters	560	20+
Nitro carboxylic acid esters	560	156
Alkane (See Hydrocarbon; Paraffin)	585	700+
Alkenes (See Olefines)		
Alkines (See Acetylene; Triple Bond Hydrocarbon)		
Alkyd Resins (See Synthetic Resin or Natural Rubber)		
Alkylate Detergent Synthesis	585	455+
Alkylation		
Acyclic hydrocarbons	585	709+
Alicyclic hydrocarbons	585	375
Aromatic hydrocarbons	585	446+
Mineral oil	208	46+
Phenols	568	780+
Allantoin	548	308
In drug	514	390
Allochiral Arrangements		
Bulb or tube special package	206	422
Closure actuators	49	299
Closure link system	49	111+
Tool with series of teeth	83	852
Tool-face, metal deforming	72	198
Alloy		
Age or precipitation hardened	148	405
Amorphous	148	403
Bearing compositions	252	12+
Compositions	420	
Making when casting	164	55.1+
Continuously casting	164	473
Deformation of	72	700
Dispersion strengthened	75	951*
Electrodes for electrolytic apparatus	204	293
Electrolytic		
Coating from aqueous bath	204	43.1+
Synthesis from aqueous bath	204	123+
Synthesis from fused bath	204	71
Treatment	204	140+
Electron emissive cathode of	420	
Ferrous (See ferrous alloys)	420	8+
Iron	420	8+
Loose metal particles	75	255+
Mechanical memory	148	402
Metal treatment	148	
Metallurgy	420	
Powder metallurgy		
Processes	419	
Products	75	228+
Pyrophorous	420	416
Railway surface track	238	150
Shape memory	148	402
Alloying		
Fusing dopant with substrate	437	134+
Alpha		
Beta gamma survey meter	250	336.1
Scintillation type	250	361R+
Hand counter	250	374
Proportional counter	376	153+
Similar counter tubes	313	93
System	250	374
Scintillation detector		
Crystal mounting	250	361R
Electric	250	361R
Non-electric	250	483.1
With sample holder	250	361R+
Survey meters	250	374
Electric	250	361R
Nonelectric	250	483.1
Scintillation type	250	361R+
Alpha Globulins	530	392
Alphabet		
Block	434	172
Design, type	D18	24+
Letter training	434	159+
Playing cards	273	299
Specialized font	382	
Stencil	101	127+
Alphanumeric		
Display		
By matrix	340	748+
Cathode ray tube	340	756+
Altars	81	
Design	D 6	329+
Alternating Current (See Type of Equipment Using)		
Converters to direct current	363	
Electromagnet with armature	335	243+
Electromagnetic switches	335	99+
Generator	310	159+
Prime mover driven	290	5
Lamp or electronic tube	315	246+
Meter	324	137+
Motor	310	159+
Polyphase to arc lamp	314	31
Polyphase to lamp or electronic tube	315	137+
System		
Telautograph	178	19
Telegraph	178	66.1+
Transmission	307	
Alternating Mechanical Motions (see Gearing)	74	
Alternator Structure	310	
Altimeter (See Altitude Instrument)	D10	70
Electrical echo systems	367	87+
Radio wave systems	342	120
Altitude Instrument		
Barometric	73	384+
Design	D10	70+
Directional radio	342	462
Light ray type	33	282
Aerial bomb sight	33	229
Optical	356	3+
Solar position locator	33	268+
Telescopes	350	537+
Vertical and horizontal angle	33	281
Vertical angle	33	282+
Passive sonic or supersonic object detection type	367	118+
Radar type	51	229+
Radiant energy	342	120+
Radiosonde	340	870.1+
System	340	870.1
Sonic or supersonic echo system, ie active sonar	367	87
With position indicating	342	462
Alto		
Wind instrument (See instrument)		
Alum	423	544+
Alumina	423	625
Refractory containing	501	127+
Magnesium compound combined	501	118+
Aluminates	423	592+
Aluminosilicate		
Alicyclic compound synthesis	585	475
By isomerization	585	481+
Compounds with plural metals	423	118
Saturated compound synthesis	585	722
Saturated compound synthesis	585	739
Silicon and silicon compounds	423	328+
Unsaturated compound synthesis	585	533
Unsaturated compound synthesis	585	666
Aluminum		
Alloys	420	528
Copper	420	529
Compounds		
Aluminates	423	592
Azo compounds containing	534	692+
Azoles containing	548	101+
Carbocyclic or acyclic compounds containing	556	170+
Diarylene ortho diketones containing	552	209
Diazine containing	544	225
Diazo compounds containing	534	562+
Halides	423	462
Higher fatty acids containing	260	414
Inorganic	423	
Misc. chemical manufacture	156	DIG. 61
With 3 &/or 4 compounds	156	DIG. 104
Nitrides	423	409
Organic	556	170+
Chelates	556	175
Clay or zeolite containing	556	173
Salicylates	556	175
Sesquihalides	556	180
Oxazine containing	544	64
Oxides	423	625
Proteins containing	530	400+
Pyridine nucleus compounds containing	546	2
Sulphates	423	544+
Thiazine containing	544	4
Triarylmethanes containing	552	103
Electrolytic coating of	204	58
Cleaning or etching combined	204	33
Electrolytic synthesis	204	67
Electrothermic processes	75	10.1+
Heat treatment	148	159
Metal working using	29	DIG. 2
Pigments	106	404
Plate	428	650+
Pyrometallurgy	75	671+
Working & heat treatment	148	11.5 A
Including age hardening	148	12.7 A
Amalgam Mixer, eg Dental Filling	366	602*
Amalgamator (See Mercury)		
Coated surface adhesion	209	50+
Mercury suspension	209	174+
Other separators combined	209	12+
Selective differentiation	209	48
Amantadine, in Drug	514	656
Amberlite T M (ion Exchange Resins)	521	25+
Ambulance	296	19+
Ambulatory Pneumatic Splints	128	83.5
Amides	564	
Higher fatty acid	260	404+
Sulphonated	260	401
Amidines	564	225+
Aromatic	564	244+
N prime-aryl formamidines	564	245
Polyamidines	564	243
Amidine Hydrazines or Hydrazones	564	226+
Amidoximes	564	229

	Class	Subclass
Amine	564	
Acyclic	564	463+
Aldehyde or ketone ctg	564	502
Hydroxy or ether ctg	564	503+
Plural amine ctg	564	511+
Sulfur	564	500+
Unsaturated	564	509
Aldehyde (See azomethine)		
Aromatic	564	305+
Aralkyl	564	374+
Aryloxy alkanol	564	349+
Aryloxy alkyl	564	347+
Benzyl	564	384+
Diaryl amines	564	433+
Diphenyl ether or sulfides	564	430
Monocyclic	564	305
Phenethyl	564	376+
Polycyclo ring system	564	426+
Boron ctg	564	8+
Bonded directly to nitrogen	564	9+
Boron-nitrogen rings	564	10+
Carbocyclic	564	305+
Oxides	564	297+
Phenol addition salts	564	280+
Phosphorus bonded		
Directly to nitrogen	564	12+
In same ring	564	13
Indirectly to amino nitrogen	564	15+
Phosphorous in a ring	564	106
Preparation		
Amination	564	395+
Dealkylation of secondary or tertiary amine	564	486
From amides	564	414
From amides	564	488
From esters	564	393
From esters	564	468
From heterocyclic compound	564	413
From organic acid acid halide or salt	564	394
Halogenation or dehalogenation	564	412
Nitration	564	411
Nitrosation	564	410
Purification or recovery	564	497+
Reduction	564	448+
Ring alkylation or dealkylation	564	409
Separation of aromatic isomers	564	424+
Stabilized or preserved	564	5+
Aminimines	564	464+
Amino Acids	260	
Acyclic	562	553+
Aromatic	562	433+
Protein derived	562	516
Tests for	436	89*
Amino Carboxylic Acid Esters		
Acyclic	560	155+
Alicyclic	560	125
Aromatic	560	19+
Amino Optical Isomers		
Racemization	564	302
Resolution	564	303
Aminophenols	564	305+
Aminoplast (See Synthetic Resin or Natural Rubber)		
Aminopyrine	548	368
Ammeter	324	76R+
Ammonia		
Chemical agents for binding	252	193
Derivatives inorganic	423	
Developing	430	150
Machines	354	300
Distillation processes	203	
Electrolytic synthesis	204	102
Gas generators	422	148
Medicator	128	203.12
Production	423	352+
Soda apparatus	422	148
Stills	202	232+
Systems for distilling	202	152+
Ammonium		
Crystallization of compounds	23	302A
Electrolytic synthesis of compounds	204	102
Fertilizer containing compounds	71	
Halides	423	470
Nitrates	423	396
Explosive or thermic composition containing	149	46+
Perchlorates	423	476
Explosive or thermic composition containing	149	76
Phosphates	423	305+
Quaternary	564	281+
Sulphates	423	545+
Ammonolysis	564	
Acyclic amine production	564	469+
Anthraquinone alpha amine production	552	238+
Anthraquinone beta amine production	552	236+
Aromatic amine production	564	395
Ammunition (See Cap; Magazine; Shell; Ordnance)	102	
Armor piercing	102	517+
Belts	89	35.1+
Blasting	102	301+
Cartridges	102	430+
Combustible	102	431+
X-art collection	102	700*
Holder	224	223
Bandoleer	224	203
Covered	224	239
Packing	86	47+
Charge wave forming	102	305+
X-art collection	102	701*
Compression ignition	102	702*
Coolants	102	704*
Design	D22	112+
Belt or belt attachable holders	D 3	100
Drop bombs	102	382+
Explosive & thermic compositions or charges	149	
Explosive charge making	86	
Explosive devices & ammunition	102	
Feeding devices	86	45+
Firearms	42	
Flechette	102	703*
Fuses, primers & igniting devices	102	200+
Heat shield	244	158R
Loading	86	23+
Making	86	10+
Mines	102	401+
Narcotic containing	102	512
Non-ricocheting	102	398
Ordnance	89	
Mechanical guns & projectors	124	
Powder bags	102	
Powder form	102	282
Projectile	102	501+
Pyrotechnics	102	335+
Receptacle	206	3
Body or belt attached	224	223
Sabots & rifling bands	102	520+
Separated explosive constituents	102	705*
Shells	102	473+
Testing	73	167
Torpedoes, aircraft	244	14
Torpedoes, ships	114	20.1+
Wads	102	448+
Weil torpedoes	102	301+
Amorphous Alloy or Metal Stock	148	403
Amoxicillin	540	331
Ampere Meter	324	76R+
Amphetamine	564	381
In drug	514	654
Amphibian Vehicles		
Airborne	244	50
Fluid cushion	180	116+
Design	D12	324
Landing gear	244	101
Ampicillin	540	336
Ampicillin, in Drug	514	198
Amplidyne	322	92
Amplifier	330	
A C raw power or bias supply	330	114+
Adjustable coupling impedance		
Automatic	330	144+
Automatic thermal	330	143
Anode voltage control	330	128
Anode voltage supply	330	202
With input electrode bias	330	203
Artificial line coupling	330	57
Beam power	313	299
Diode	313	298
With beam forming electrodes	313	299+
Bias voltage control	330	129+
In feedback amplifier	330	96
In push pull amplifier	330	182
Bootstrap	330	156
Bridge, wheatstone	330	146
Cascode type	330	72
Impedance network in coupling circuit	330	175
Buffer	330	
Radio transmitter with	455	91+
Bypass of an amplifier stage	330	151
Capacitive amplifier device system	330	7
Input	330	185
Interstage	330	177+
L in anode or grid circuit	330	179
L in series between stages	330	178
Output	330	192
R in anode and grid circuit between stages	330	180
R in series between stages	330	178
Cascaded differently coupled stage	330	152+
Including a cathode follower	330	153
Including an interstage resonant network	330	154
Including interstage transformer coupling	330	154
Cascode	330	70*
Cathode self biasing circuit	330	142
Cathode to cathode coupling of adjacent stages	330	89
Cathode to cathode feedback	330	88+
Class D type	330	251
Combined with diverse type art device	330	1R
Compressor thru bias control	330	129+
Output	330	193+
Phase inverter	330	117
Push pull	330	119
Compressor thru impedance control	330	144+
Interstage	330	158+
Push pull	330	119
Compressor thru thermal impedance control	330	143
Screen grid input	330	161
Screen grid output	330	163
Coupling from cathode		
Interstage	330	172+
Interstage transformer	330	168
Coupling from grid	330	162+
Coupling from screen grid	330	162+
Coupling impedance automatically varied	330	144+
Diode	330	145
Electronic tube	330	145
Thermal	330	143
Coupling network		
H filter	330	176
Lattice filter	330	175
P I filter	330	176
R C	330	180
T filter	330	176
Wheatstone bridge	330	175
Coupling to cathode		
Bootstrap	330	156
Input	330	186+
Coupling to plate or auxiliary electrode	330	160+
Coupling to screen grid	330	160+
Current mirror type	330	257
Current mirror type	330	288
D C coupling		
Cathode input	330	187
Cathode input interstage	330	159
Cathode output	330	194
Cathode output interstage	330	173
Grid output	330	163
Input	330	191
Interstage	330	181+
Output	330	198
Plate or aux electrode input	330	161
Push pull interstage	330	121
Design	D14	188+
Detector for AVC	330	140
Biased	330	138
Triode	313	293+
Differential	330	69
Diode as coupling element	330	164
Diode power pentode	313	298
With two cathodes	313	5
Diode type	330	287
With plural power supplies	315	166
Direct coupled power	313	3
Distortion bucking in	330	149
Distributed parameter coupling	330	53+
Diverse type amplifying devices	330	3
Dynamic coupled power	313	3
Dynamo- electric rotary linear	330	58
Electric	330	
Automatically varied impedance in feedback path	330	86

	Class	Subclass
Auxiliary electrode	330	111
Cascade amplifiers	330	98+
Cathode	330	87+
Cathode impedance feedback	330	87+
Cathode-cathode feedback	330	88+
Combined with bias voltage control of FL bl amplifier	330	85
Combined with bias voltage control of signal amplifier	330	96
Current and voltage feedback	330	102
Current feedback	330	105
DC signal feedback path	330	97
In push pull amplifier	330	83
Electromechanical telephone	381	161+
Electronic tube type	330	
Frequency responsive	330	109
Frequency responsive cathode impedance	330	94
Negative feedback	330	75+
Non- linear cathode impedance	330	95
Non- linear impedance	330	110
Phase shift means in loop path	330	107
Plural channel amplifiers	330	84
Positive feedback	330	112
Pulse amplifier electronic tube type	328	53+
Transformer	336	
Transistor making		
Apparatus	29	25.2
Process	437	
Transistor structure	357	
Transistor system (See amplifier, transistor)	330	250+
Transistor system non-linear	307	200.1+
Traveling wave tube systems	330	43
Traveling wave type tube structure	315	3.5
Traveling wave type tube structure	315	39.3
Two way telephone repeater	379	338+
Electrocardiograph	128	902*
Electrolytic	330	207R
Electromechanical transducer coupling element	330	174
Positive and negative feedback in push pull amplifiers	330	82
Positive and negative feedback in same path	330	101
Positive feedback included with cathode impedance feedback	330	93
Push pull amplifiers	330	81+
Electron beam tube systems	330	44+
Electronic tube as coupling element	330	164
Feedback	330	75+
Amplifier in feedback path	330	85
Filamentary cathode	330	206
AC supply	330	115
Plural	330	201
With input electrode supply	330	205
Gas tube amplifying device system	330	41
Guitar	84	723+
Hum bucking in	330	149
Indicating amplifier condition	330	2
Input	330	185+
Input coupling	330	185+
Push pull	330	122
Integrated circuits	330	307
Interstage coupling	330	157+
Push pull	330	120+
Light controlled or activated means in amplifier system	330	59
Magnetic linear	330	8
Magnetic switching	307	415
Magnetic voltage magnitude control	323	
External or operator controlled	323	329
Input responsive	323	302
Output responsive	323	249
Self regulating	323	310
Magneto-resistive type amplifier device	330	62
Magneto-strictive means in amplifier system	330	.60
Magnetron systems	330	47+
Masertype	330	5
Measuring amplifier condition	330	2
Microphone	381	111+
Modulator- demodulator systems	330	10
Neutralization by feedback	330	76+
Neutralization by feedback transistor	330	292
Neutron	376	171
Noise bucking in	330	149
Output coupling	330	192+
Push pull	330	122
Parametric type capacitive reactor	330	7
Parametric type distributed parameter solid element	330	5
Parametric type saturable core reactor	330	8
Combined with meter	324	118
Pentode	330	
Pentode	313	300
Phase inverters	330	116
Phase inverters	330	117
Phase inverters transistors	330	301
Piezoelectric crystal coupling element	330	174
Pilot current controlled	330	52
Plural amplifier channel systems	330	124R+
Plural input sources	330	147
Plural output loads	330	148
Power supply	330	199+
AC raw	330	114+
Control or regulation	330	127+
Polyphase	330	113
Push pull	330	123
Push pull control or regulation	330	123
Preselector	330	
Printed circuits in amplifier system	330	66
Protection means	330	298
Push pull systems	330	118+
Radio frequency	330	
Power amplifier	330	
Shielded	330	68
With gain control	330	129+
Resistance coupled	330	180
Resistive type amplifying device systems	330	61R
Saturable core reactor systems		
External or operator controlled	323	329
Input responsive	323	302
Linear	330	8
Non- linear	307	401
Output responsive	323	249
Self regulating	323	310
Voltage magnitude control	323	
Screen grid voltage control	330	128
Secondary emitter vacuum tube systems	330	42
Semiconductor device (See amplifier, transistor)		
Series energized tubes	330	70+
Sound	181	
Diaphragms and mountings	181	148+
Electromechanical audio	381	161+
Megaphones	181	177+
Receiver telegraph	178	100
Recording and reproducing	369	
Speaker	381	111+
Stagger tuned	330	154
Sum & difference amplifiers	330	69
Testing amplifier condition	330	2
Thermal impedance in amplifier signal path	330	143
Diode type	330	287
Electrostatic field control	330	277
Feedback	330	291+
Four electrode type	330	307
Graded conductivity type	330	250+
Input to collector	330	250+
Intrinsic zone	330	250+
Light control	330	308
Negative feedback	330	293
Neutralization by feedback	330	292
Plural channel	330	295
Plural input	330	295
Plural output	330	295
Push- pull	330	262+
Radiant energy bombarding	330	308
Three electrode type	330	309
Unbalanced to balanced	330	301
Volume control	330	278+
Time constant circuit in bias control system	330	141
Tone control automatic		
Diode as variable coupling impedance	330	145
Electronic tube as variable coupling impedance	330	145
Feedback frequency selective network	330	109
Feedback frequency selective network in cathode impedance	330	94
Impedance control in feedback path	330	86
Phase shift means in feedback amplifier	330	107
Variable coupling impedance	330	144+
Variable coupling thermal impedance	330	143
Tone control manual	330	
Input coupling adjustment	330	185+
Interstage coupling adjustment	330	157+
Output coupling adjustment	330	192+
Plural amplifier channels different frequencies	330	126
Potentiometer common to signal and feedback path	330	108
Push pull input coupling adjustment	330	122
Push pull interstage coupling adjustment	330	120+
Push pull output coupling adjustment	330	122
Unicontrol means	330	155
Transductor linear	330	8
Transductor voltage magnitude control general	323	
External or operator controlled	323	329
Input responsive	323	302
Output responsive	323	249
Self regulating	323	310
Transformer coupling		
Additional impedance input	330	189
Additional impedance interstage	330	167
Additional impedance output	330	196
Additional reactive coupling	330	166
Adjustable inductance	330	169
Cathode input	330	186
Cathode input interstage	330	158
Cathode output	330	193
Cathode output interstage	330	168
In cascode differently coupled stages	330	154
Input	330	188+
Interstage	330	165+
Output	330	195+
Push pull input	330	122
Push pull interstage	330	120
Push pull output	330	122
Stagger tuned	330	154
Structure input	330	190
Structure interstage	330	171
Structure output	330	197
Tuned input	330	189
Tuned interstage	330	167
Tuned output	330	196
With shielding	330	170
Transistor, linear	330	250+
Balanced to unbalanced	330	301
Cascaded	330	310+
Combined diverse type combined	330	299+
Combined with semiconductor diode	330	299+
Common collector	330	250+
Complementary types cascaded	330	310+
Complementary types parallel input	330	263+
DC coupled cascaded	330	310+
Transistor system, non-linear	307	200.1+
Travelling wave tube systems	330	43
Twin triode power	313	301
With two cathodes	313	6
Unicontrol of coupling	330	155
Vapor tube amplifying device system	330	41
Voltage delay in bias control amplifier	330	132
Volume control automatic	330	
Amplifier in feedback path	330	85
Anode voltage control	330	128
Bias control	330	129+
Diode impedance variable	330	145
Electronic tube impedance variable	330	145
Feedback	330	75+
Power supply regulation	330	127+
Push pull amplifier bias or power supply control	330	123
Variable coupling impedance	330	144+
Variable coupling thermal impedance	330	143
Variable feedback impedance	330	86
Volume control manual		

	Class	Subclass
Anode voltage adjustment	330	128
Bias adjustment	330	129
Cathode self bias adjustment	330	142
Input coupling adjustment	330	185+
Input coupling adjustment push pull amplifier	330	122
Interstage coupling adjustment	330	157+
Interstage coupling adjustment push pull amplifier	330	120+
Output coupling adjustment	330	192+
Output coupling adjustment push pull amplifier	330	122
Potentiometer common to signal and feedback paths	330	108
Power or bias supply adjustment	330	127+
Power or bias supply adjustment in push pull amplifier	330	123
Unicontrol means	330	155
With high frequency structure	330	53+
With long line	330	53+
With volume compression thru bias control	330	129+
With volume compression thru impedance control	330	144+
With volume compression thru thermal impedance control	330	143
Amplitude		
Comparison, compressional wave, geophysical	367	30
Limiter		
Amplifier AVC	330	129+
Clipper		
Grid control type	328	54
Telephone system	330	
Amplitude Modulation	332	149+
Analog carrier wave communications	455	
Peak compressional wave, geophysical	367	29
Pulse carrier wave communications	375	24
Pulse or digital communication	375	
Ampoule (See Container)		
Exhaust	141	
Filling	141	31
Medicament containing	424	451+
Opener	51	204
Structure	215	32+
Surgical	604	200+
Hypodermic	604	415
Amprotropine, in Drug	514	534
Amusement Devices	273	
Design	D21	240+
Elevator	272	6+
Exercising devices	272	
Games	273	
Houses	272	2
Mechanical guns & projectors	124	
Mirrors and reflectors	350	600+
Railway	104	53+
Car in wheel	104	77
Roundabout stationary	272	43+
Roundabout transported	272	29
Trip illusions	272	17+
Toys (See toys)	446	
Water guns	222	78+
Amyl		
Alcohol	568	840
Chloride	570	181
Mercaptan	568	61+
Nitrate	558	480
Amylaceous Material	127	
Fermentative analysis or testing	435	4+
Anabasine	546	193
Anaerobic		
Cultivation	435	801*
Curing adhesive	156	322
Fermentation	435	
Fertilizer	71	10
Sewage treatment	210	601+
And aerobic	210	605
Anaglyphs	350	132
Analgesic, Audio	600	26+
Analogue Computer		
Electrolytic tank for determining equipotential lines	235	61R
Analytical and Analytical Control		
Apparatus		
Chemical	422	50+
Electrolytic	204	400+
Compositions	330	299
Electrical	330	299
Electron microscope	330	299
Human diagnostics	128	630+
Mass spectrometry	250	281+
Method		
Chemical	436	43
Fermentative	435	3
Using invisible light	250	336.1
Using X rays	378	
Analyzers (See Analytical and Sensing)		
Electric waves and harmonics	324	77R
Cathode ray oscilloscopes	324	121R
Mirror galvanometer oscilloscopes	324	97
Oscillographs	346	108+
Sound	73	584+
Speech	381	41+
Refrigerator, sorbent type	62	495+
Sound	181	
Frequency components	324	77R
Wave separation	333	167+
Analyzing (See Sensing)		
Anastigmat Lenses	350	409
Anatase	423	610
Anatomical Gauges	33	511+
Anatomy, Teaching	434	267+
Anchor and Anchorage		
Animal powered apparatus	185	25
Bolt		
Concrete set type	52	698+
Bridges		
Arch	14	26
Suspension	14	21
Building component	52	698+
Cable rail	104	117
Cycle locked to	70	234
Decoy	43	2+
Design	D12	215
Dredges		
Bank spud anchor	37	74
Bottom spud anchor	37	73
Earth control device combined	405	259+
Expansible well type	166	206+
Earth boring combined	175	230
Fishing trolley	43	27.2
Freight on freight carrier	410	101+
Land	52	155+
Land vehicle anchors	188	7
Marine structure to bed	405	224+
Marine type mines	102	411+
Masonry	52	698+
Pile	405	244
Cast in situ enlargement	405	237+
Pole base	52	292+
Railway surface track		
Bolt	238	377
Clamp type rail anchors	238	343+
Concrete for rail seat	238	265
Rail anchors	238	315+
Screw pedestals	238	120
Tie anchors	238	106
Tie plate anchors	238	297+
Ship anchors	114	294+
Stovepipe	126	318
Strand ends	24	122.6
Hoist rope	212	95
Line driven planters	111	49
Suspension bridges	14	21
Tank-car body	105	362
Wall tie		
Andirons	126	298
And robot	901	1*
Android	901	1*
Design	D23	407
Androstenes	552	633+
Androsterone	552	641
Anemometer	73	861.85
Direction determination combined	73	189
Anerobic Sealant Resin Compositions	523	176
Aneroid Barometers	73	386+
Anesthetic		
Anesthesia gas scavenging system	128	910*
Compositions	424	
Explosive devices containing	102	512
Feeder	128	203.12
Anethol	568	658
Angle Iron	52	720
Angle Measurement		
Photoelectric	356	138+
Of rotating shaft	250	231.13+
Variable angle, with light conductor	250	227.3
Angle Polysection Measure	33	1AP
Measuring instrument	D10	65+
Angling (See Fishing; Trapping)		
Anhydrite Anhydrous Gypsum	106	775+
Calcining processes	106	765
Plasters	106	772+
Aniline	564	305+
Formaldihde polymers (See synthetic resin or natural rubber)		
Animal		
Artificial	428	16
Having lights	362	124
Attack resistant stock	428	907*
Beds	D30	118
Bee culture	449	
Blocking repelling or chasing	49	58+
Butchering	17	
Depilating compositions	17	1D
Calls and callers	446	397
With mouthpiece	446	207+
Canopy frame supported by	135	90
Care and handling	D30	
Catching and holding device	119	151+
Confining and housing devices	119	15+
Cages	119	17+
Paperboard shipping box	229	120.1+
Dips and sprays	424	
Draft appliance	278	
Monorail vehicle	105	143
Droppings handler	294	1.3+
Extracts		
Medicine containing	424	520+
Farriery	168	
Feed devices	119	51.1+
Design	D30	121+
Fertilizer	71	15+
Bones	71	19+
Fishing, trapping, & vermin destroying	43	
Food	426	635+
Apparatus	99	
Design	D 1	
Mixer	366	603*
Protein	426	635+
Grooming	D30	158+
Harness	54	
Husbandry	119	
Design	D30	
Marker	40	300+
Design	D30	155
Medicines for treating	424	
Poisons	424	
With food bait	424	410
Pokes	119	136+
Preserving or mounting including teaching taxidermy	434	296+
Releasing apparatus	119	15.1+
As target	119	15.6
Saddlery	D30	134+
Shears	30	194+
Shelter or pen	D30	108+
Shipping crates	D30	109+
Stop in building	52	101
Stop in sewage system	210	131
Taming or training devices	119	29
Tissue treatment	8	94.1 R+
Toys	446	268+
Traps	43	58+
Design	D22	119+
Watering devices	119	72+
Design	D30	121+
Whips & whip apparatus	231	
Animal Cell Culture	435	240.2+
Animal Cell Growth Media	435	240.3+
Animal Cell Per se	435	240.2+
Animated Cartoons (See Motion Picture)		
Anisidine	564	443
Ankle		
Supports	128	166
Anklets	2	239+
Annealing		
Boxes	266	262+
Casting plus annealing in mold	164	122+
Containers for material heated	432	254.1+
Glass apparatus	65	348+
Cutter associated	65	176
Glass making and	65	
Glass process	65	117+
Heating apparatus	432	120+
Metal	148	13+
Metal casting and working combined	148	2
Metal casting combined	148	3

	Class	Subclass
Metal working combined	148	11.5 R+
Metallurgical apparatus	266	249+
Misc. chemical manufacture	156	DIG. 73
Annular Article, Container for	206	303
Annunciator and Systems	369	
Drops	340	815.29
Electrical	340	815.1+
Systems	340	286.11+
Telephone switchboard	379	315+
Mechanical	116	200+
Timer electric	340	309.15+
Train position	246	124
Anode		
Electrolytic	204	280+
Basket type cell	204	259
Support	204	297R
Support combined	204	286+
Gas and vapor lamp	313	326+
Plural consumable electrode eg arc	314	36+
Space discharge devices electronic tubes	313	326+
Anodic Oxidation	204	56.1+
Multiple layers	204	42
Answer (See Question)		
Answer Back		
Annunciator system	340	313+
Telegraph system	178	4.1 B+
Antenna	D14	230+
Active antenna as reflector	343	832
Aircraft, with	343	705
Alarm combined	343	894
Moving means for scanning	343	760
Array	343	700R+
Automobile, with	343	711+
Balanced V-wave	343	735
Biconical horn	343	773
Body attached or carried	343	718
Bracket supported	343	892
Cage	343	896
Clover leaf type	343	741+
Coated	343	873
Cone	343	829+
Connectors for electrical	439	
Counterpoise, with	343	846+
Coupled to plural lead ins	343	858
Coupling for electrical	333	24R+
Plural channel	333	1+
Coupling, with	343	850+
Design	D14	230+
Dielectric lens	343	911R
Dielectric type	343	785
Dipole	343	793+
Folded	343	803+
Director	343	912+
Doublet balanced	343	793+
Drooping ground plane	343	829+
Duplex system, in	370	24+
Electromagnetic wave refractor	343	753+
Embedded	343	873
Filter in an active antenna	343	722
Filter in coupling, with	343	850+
Fishbone	343	811
Foundry	164	374+
Ground plane	343	829+
Grounding structure combined	343	846+
Helical	343	895
High frequency loop	343	741+
Horn	343	786
Housing, with	343	872+
Ice clearer or preventer, with	343	704
Impedance matching, with	343	860+
Plural path	343	852
Indicator combined	343	894
Moving means for scanning	343	760
Insulators for	174	137R+
Bushing type	174	152A+
Inverted V-wave	343	736
Knockdown	343	880
Lens	343	909
Lens combined	343	753+
Lightning protector combined	343	904
Lightning protectors for		
Miscellaneous	361	117+
Spark gap type	313	325
Thermal current	337	28+
Liquid column type	343	700R
Loading	343	749+
Loop	343	866+
Collapsible	343	871
High frequency	343	741+
Rotatable	343	869
Making	29	600
Mast for	52	649
Guy wire	52	148
Pivoted or extensible	52	111+
Mast type	343	874
Mesh type	343	897
Orienting	343	757+
Pillbox	343	780
Planar linear array	343	824
Plural	343	893
Polarization		
Converter combined	343	756
Filter combined	343	756
Polarizer	343	909
Potted	343	873
Rabbit-ears	343	805
Radio		
Cabinet combined	343	702
Receiver, in	455	269+
Transmitter, in	455	129
Reel type	343	877
Reflector	343	912+
Collapsible	343	915
With reflector	343	833+
Resonant V-type	343	809
Retractible into support	343	899
Rhombic	343	733+
Rod type	343	900+
Decorative element	52	301
Extensible	52	632
Reel type extender	242	54A
Support for	248	511+
Telescoping	343	901+
Vehicle attached	52	110
Rotator	D14	237
Scanning	343	757+
Shield, with	343	841+
Signal measuring structure, with	343	703
Skirt	343	829+
Sleeve type	343	790+
Slot type	343	767+
Space discharge device, with	315	34
Space discharge device, with	343	701
Spiniferous	343	899
Spiral	343	895
Scanning	343	759
Steering	342	368+
Wheel	343	829+
Stub	343	831
Submerged	343	719
Support for	248	
Support for	211	
Support, with	343	878+
Electric stress distributing	343	885
Static discharge	343	885
Streamlined support	343	887
Support rotatable	343	882
Sweeping	343	757+
Switch for	200	
Switch, with	343	904
Switching between antenna and line	343	876
Telescoping	343	901+
Tower type	343	874+
Transceiver, in	455	82
Transmission line for	174	68.1+
Electrically long	333	236+
Transmission line with	343	905
Traveling wave	343	731+
Tuning	343	745+
Turnstile	343	797+
Underground	343	719
Underwater type	343	719
Vehicle combined	343	711+
Water-borne	343	709+
Wave	343	731+
Guide type	343	772+
Whip	343	900+
Woven type	343	897
Anthanthrenes	552	284
Anthracene (See Aromatic Hydrocarbon)	585	400+
Oxidation of	552	208
Purification of	585	800
Anthracyclinones	552	201
Anthranilic Acid	562	458
Anthranols	552	271+
Anthrapyridones	546	76
Anthrapyrimidines	544	248
Anthraquinodimethane	552	210
Anthraquinone Purification	552	208
Anthraquinones	552	208+
Acridine nucleus containing	546	102+
Anthraquinonobenzacridones	546	58
Azo compound ctg.	534	654+
Carbazole nucleus containing	548	416+
Dye compositions containing	8	675+
Piperazines containing	544	380+
Pyrazole nucleus containing	548	357
Pyridine nucleus containing	546	
Pyrimidines containing	544	294
Triazines containing	544	187+
Anthrimides	552	214
Anthrones (See Anthraquinones)	552	271+
Antiabrasion Cable Device	174	136
Antiaircraft (See Gun)		
Antibiotic Compositions	424	
Antibodies	530	387
Anticaking Agents	252	381+
Anticannibalism Devices for Poultry	119	97.1+
Anticathode	378	143
Anticorrosion		
Compositions	252	387+
Coating or plastic	106	14.5+
Detergents containing	252	146+
Heat exchange fluid containing	252	68
Well treating	252	8.555
Magnetic field apparatus	422	186.2
Metal protection		
Reactive coating	148	240+
Within nuclear reactor	376	305
Mineral oil conversion combined	208	47
Silverware tray incorporated	206	553
Vapor treating apparatus	312	31+
Anticreep		
Rim and wheel	152	384
Spring wheel drive	152	66
Wheel drive	152	68
Tire and tube	152	500
Antielectrolysis		
Electrical distribution system	307	95
Object protection		
Apparatus	204	196+
Processes	204	147+
Antiexplosion Agents	44	300+
Explosive combined	149	
Antifading Radio Receiver	455	52
Antifoaming		
Agents	252	358
Devices for boilers	122	459
Antifouling Plastic Compositions	106	15.5+
Antifreeze		
Aircraft deicing	244	134R
Compositions	252	71+
Coating	106	13
Heating system protectors	237	80
Tester	72	32R+
Treatment of solid fuel	44	601
Antifreeze Agent Supply	138	34+
Antifriction		
Bearing	384	445+
Compositions	252	12+
Fluid bearing combined	384	101+
Linear	384	7+
Plain bearing combined	384	126+
Closure guide	49	425+
Compositions	252	9+
Keepers	292	340+
Locks	70	464
Antigen	424	88+
Antigen, Chemical Modification of Protein	530	403+
Antigen-antibody Testing	436	500+
In vitro	436	500+
Enzyme labeled	435	4+
In vivo	424	
Antiglare		
Light projectors	362	351+
Mirrors and reflectors	350	278+
Windows	350	284
Windshields	296	96.19
Antihalation Layer	430	510+
Antihemorrhagic Composition	424	
Anti-induction		
Cathode ray tube circuits	315	8
Inductor devices with shields	336	84R+
Resistors	338	61+
Shielding tubes and spark plugs	315	85
Telegraph interference balancing	178	69B
Telephone circuitry	379	416+
Transmission line	174	32+
Anti-ingestible	252	365+
Antijimmy Locks	70	418

	Class	Subclass
Antikink Devices		
Appliance cords		
Extensible cords	174	69
Springs	267	74
Antiknock		
Cyclomatic compounds	556	1*
Engine accessories	123	198A
Exhaust gas treatment	422	168*
Fuel combined with antiknock agent	44	300*
Gaseous compositions	252	373
Measuring knock	73	35
Tetraalkyl lead	556	95
With preservative or stabilizer	556	3*
Antilash Joint	105	424
Antimagnetic Timepiece	368	293
Antimicrobial Activity		
Fermentative analysis or testing	435	32
Antimony		
Alloys	420	576
Antimonates	423	592*
Carbocyclic or acyclic compounds containing	556	64*
Halides	423	462*
Misc. chemical manufacture	156	DIG. 94
Oxides	568	477
Pigments, fillers or aggregates	106	455
Pyrometallurgy	75	703*
Sulphides inorganic	423	511
Antinoise		
Bed	5	309
Closure buffer	16	82*
Cranks and wrist pins	74	604
Ear shields	128	864*
Flywheels and rotors	74	574
Gears	74	443
Land vehicle		
Animal draft gear	278	61*
Axle connection	280	138
Tongue	280	108
Levers and linkage	74	490
Lock mufflers	70	463
Machinery support		
Bases	248	678*
Bracket	248	674*
Suspension	248	637*
Resilient	248	610*
Motor support vehicle	248	560*
Mufflers	181	212*
Pawl and rachet	74	576
Railway		
Rolling stock	105	452
Track	238	382
Wheels	295	7
Reaction motor nozzle	239	265.13
Rotary motors or pump	415	119
Supports	248	562*
Typewriter		
Muffler	400	689*
Platen	400	661*
Antiozone Agent or Process	430	929*
Antioxidant		
Compositions	252	397*
Edible oils and fats	426	601*
Fats, fatty oils, fatty acids, ester type waxes	260	398.5
Polymers treated (See class 523, 524)		
Solid polymers containing (See synthetic resin compositions)		
Antipanic Door Bolts	292	92*
Antipecking Poultry Restraint	119	97.3
Antiphone Ear Sound Stoppers	128	864*
Antipick Locks	70	419*
Antipicking Poultry Restraint	119	97.3
Antipyrine	548	368
Antirachitic Vitamin		
D compound	552	653
Foods and processes	426	
Medicines	514	167*
Antiruffle	16	DIG. 6
Lock	70	463
Keeper	292	341.12*
Window	292	76
Car	49	428*
Antireflection Fibers	350	164*
Antiricochet Projectiles	102	398
Antirousting Poultry Restraint	119	903*
Antiscorbutic Vitamin		
C compound	549	315
Foods and processes	426	72*
Medicines	514	474
Antiseptics (See Disinfection; Preserving)	422	
Compositions	424	
Detergents combined	252	106*
Medicators	604	19*
Water softener combined	252	175*
Antiside Draft Device (See Equalizer)		
Animal draft	278	3*
Harvesters	56	321
Antisiphon for Fluid Handling Systems	137	215*
Antislip or Antiskid		
Compositions, coating or plastic	106	36
Horseshoe calks	168	29*
Ladder terminals and feet	182	107*
Overshoes	36	7.6*
Pavements	404	19*
Block surface	404	19*
Shoe		
From foot	36	58.5
Tread	36	59C
Supports		
Illumination	362	389
Tires	152	208*
Armored	152	167*
Track sanders	291	
Traction mats	238	14
Antismoking Product or Device	131	270
Antismut		
Compositions, coating repellent	106	2
Printing combined	101	416.1*
Slip sheet		
Apparatus	34	94
Processes	34	6
Antisnoring		
Body restraints	128	871
Chin supporters	128	164
Mouth restraints	128	859*
Antispasmodics	424	
Antisplash		
Vehicle mud guards	280	847*
Antistatic		
Electrically conductive coating compositions	252	500*
Polymers treated (See class 523, 524)		
Process for synthetic fibers	57	901*
Antitheft Devices, eg Locks	70	
Alarms	340	500*
For vehicle	340	426*
Vehicle ignition disabling	307	10.3*
Antithumb Sucking	128	857*
Antitoxins	424	85.1*
Syringes	604	187*
Antivermin	43	124*
Animal treatment	119	156*
Perches fowl	119	25
Antivibration (See Antinoise)		
Anvil	D 8	46
Assembling and disassembling	29	283
Blacksmith	72	476*
Bolt and rivet making	10	22
Hammer attached	72	407*
Hammer or press	72	462*
Hollow rivet setting	227	61*
Machine combined	29	560*
Nail extractor	254	19
Pile or post	173	128
Saw setting	76	73
Saw swaging	76	57
Tool driving	173	128
Vises combined	72	457*
Apo-6	540	312
Apartments	52	234*
Rolling partitions	160	351
Hanging or drape type	160	350
Aperture Card	493	944*
Apiaries	449	
Apparel (See Type of Article Worn; Clothes)	2	
Adornment, attachable	D11	
Apparatus	223	
Boot and shoe making	12	
Knitting	66	
Patterns	33	2R*
Sewing	112	
Weaving	139	
Blouse, shirt	D 2	208*
Boots shoes and leggings	36	
Design	D 2	264*
Making	12	
Cape, stole, shawl	D 2	179*
Catamenial and diaper	604	358*
Design	D24	50
Ceremonial robe	D 2	79
Cleaning		
Brushing devices	15	
Ironing or pressing	38	
Methods	8	137*
Washing devices	68	
Coat, jacket, vest	D 2	183*
Collar making	83	901*
Containers for	206	278*
Making	493	938*
Making garment bag	493	935*
Making with support	493	939*
Costume	D 2	79
Design	D 2	1
Hosiery	D 2	329*
Hogligoes	D 2	12*
Dress or suit	D 2	49*
Female support undergarments	450	1*
Fire fighters	169	48*
Footwear	D 2	264*
Hand coverings	D 2	610*
Headwear	D 2	509*
Knitted	66	169R*
Layout and measurement means	33	403*
Footwear	33	4*
Garments	33	11*
Leather manufactures	69	
Light thermal electrical treatment	128	379*
Lingerie	D 2	1*
Locks for	70	59
Marking & measuring instruments	33	2R*
Neckwear	D 2	600*
Respirators	128	200.24*
Skirt	D 2	223*
Stockings, socks	D 2	329*
Swimming suit	D 2	40*
Travel bags for	206	278*
Undergarments	D 2	1*
Vestment	D 2	79
Appendage	425	DIG. 3
Apple Trees	PLT	34
Appliances		
Cooking	D 7	323*
Food preparation, household	D 7	
Major household (See types)	D15	
Applicator		
Brushing	15	
Material supply combined	401	268*
Coating by absorbent	427	429
Coating by brush	427	429
Coating or cleaning implement	15	104R*
Material supply combined	401	
Daubing	15	
Dispenser combined	141	110*
Electrical	128	783*
Electrolytic	204	224R
Hair dye	D28	7*
Kinesitherapy	128	24R*
Light	128	395*
Loaders	15	257.5*
Material supply combined	401	
Medicators	604	19*
Medicinal	D24	63
Polishing	15	
Material supply combined	401	
Powder compact	132	293*
Pad overlying material including	401	130
Separable from combined supply container	401	118*
Thermal	128	399*
Wiping	15	
Appliers (See Applicator)		
Abrading sheet	51	275
Antiskid device	152	213R*
Boot and shoe cement	118	410*
Boot and shoe lining	12	39
Box bail	493	88
Box and enclosure	493	102*
Cigar and cigarette making	131	88*
Hose clamp	81	9.3*
Label pasting and paper hanging	156	
Metallic leaf	156	540*
Receptacle closure	53	287*
Sealing wax	401	1*
Dispenser with heating means	222	146.2
Dispenser with illuminator or burner	222	113
Shaped cosmetic	132	320
Sheet metal container making components	413	

	Class	Subclass
Ship caulking	114	224
Skid chain	81	15.8
Surgical clip	29	243.56
Tools for assembling/disassembling	29	700*
Wire to articles	140	93R*
Winding on	242	
Woodwork glueing and pressing	156	
Applique	428	914*
Design	D 5	63*
Sewn	112	
Apricot Trees	PLT	39
Aprse (See Associated Machine)		
Apparel	2	48*
Design	D 2	226*
Design, combined with dress	D 2	85*
Cigar and cigarette machine	131	47*
Drawbridge	14	47
Dump car	105	279
Lathe	82	135*
Ship leak stopper	114	229
Vehicle fender	293	41
Vehicle storm protector	296	77.1*
Aqua Regia		
Detergent containing	252	101
Aquaplanes (See Ski; Sled; Surfboard; Toboggan)	441	65*
Design	D21	224*
Aquarium	119	5
Design	D30	101*
Filter	210	416.2
Immersion water heater	D23	316
Aquasols (See Sol)		
Aquatic Culture	119	2*
Aquatic Devices (See Boats; Buoys; Lifesaving; Swimming)	441	
Aquatic Plant Destruction	71	66
Aqueducts	405	84
Aqueous Fluids		
Earth boring compounds	252	8.51
Aqueous Polymerization Systems (See Class 523, 524, 526)		
Araldite T M	528	87*
Arbor (See Mandrel; Shaft)		
Garden	47	44*
Press	29	251
Processes of making watch	29	178
Watch and clock	368	322
Work	279	2R
Arbutin	536	4.1
Arc		
Curved line scribers	33	27.1*
Straight line	33	26
Electric		
And incandescent lamp	313	8
Blowout lightning arrestors	361	117*
Blowout magnet	335	210*
Arc system having	314	20
Electronic tube system having	315	344*
Lamp having	313	153*
Switch having	200	147R
Chemical apparatus	422	186.21
With magnetic field	422	186.3
Chemical processes nitrogen	204	178*
Chemical processes with magnetic field	204	156
Consumable electrode eg lamp	314	
Consumption feed type	314	59*
Cored carbon lamp	314	
Economizer combined	314	25
Extinction in a fusible element actuated switch	337	273*
Extinction in lightning arrester	361	117*
Extinction or prevention in switch	200	10
Extinction or prevention in switch	337	110
Extinction or prevention in switch	200	144R*
Feeding electrodes to	314	
Fume condenser for	314	26*
Fume flow director	314	26*
Furnaces	373	60
Induction	373	7
Resistance	373	5*
Resistance with induction	373	6
Globes for	362	363
Lamps	313	
Electrode composition	252	500*
Electrode holder	403	
Electrode structure	313	326*
Hangers	362	416
Manufacture	445	
Metal heating	219	121.11*
Metal heating and casting	164	250.1
In continuous casting apparatus	164	505*
Plural diverse heating means	373	1
With induction	373	4
With resistance	373	3
Projectors using	362	261*
Recorder	346	150
Regulating consumable electrode	314	
Regulating generally	315	
Search light	362	261
Shade or bowl supports for	362	433*
Space discharge devices, manufacture	445	
Spot knocking	445	5
Stage spotlights	362	261*
Supply systems	315	
Suspended support for	248	317*
Suspension supports for	362	391*
Telegraph receiver	178	92
Tip cleaner for	314	23*
Tower or post for supporting	52	40
Treating materials with	422	186.21
Ventilator for	314	26*
Welding	219	136*
Furnace		
Chemical	422	186.21*
Welding electrode holder	219	138*
Gas lamp	313	567*
Circuit	315	
Structure	313	567*
Metal heaters	219	121.11*
Saw machines	83	782
Slicer blade	144	167
Welding	219	121.11*
Electrode	219	145.1*
Arch	52	86
Arch bar bogie	105	204*
Bridge		
Arch	14	24*
Truss and arch	14	2
Doorway	52	85
Fire tube boilers		
Water arch	122	89
Water arch subjacent	122	79
Furnace	110	
Arch per se	110	331*
Door arch	110	181*
Garden	47	44
Masonry	52	89
Monolithic	52	88
Support for footwear	36	71
Design	D 2	314
Shoe with	128	581*
Ventilated	36	3R
With bandage structure	128	166.5
Archery		
Arrows and darts	273	416*
Blow guns	124	62
Design	D22	102
Bow	124	23.1*
Compound	124	25.6
Cross bow	124	25
Design	D22	107
Design	D22	107
Elastic band guns	124	22
Architecture Teaching	434	72*
Architrave	52	211*
Arctics Rubber	36	7.3
Area		
Calculators	33	121*
Integrators	33	121*
Velocity integrators	73	227
Monitors		
Nuclear energy	250	336.1
Scintillation type	250	361R*
Areaway	52	107
Arecoline	546	318
Areas		
Amusement	272	3*
Construction	D25	12
Lighting	362	227*
Areometers	73	441*
Argol	562	585
Argon	423	262
Lamps	313	567*
Arithmetic Teaching	434	191*
Calculators	235	61R*
Arm		
Artificial	623	57*
Phonograph	369	244*
Acoustical	369	158
Protectors	2	16*
Rabat	901	
Signal		
Railway semaphore	246	482*
Vehicle direction	116	52*
Arm Band	D 2	624*
Arm Rest	248	118
Chair folding	297	35*
Chair or seat	297	411*
Chair reclining	297	323
Crutches	135	73
Land vehicle	296	71
Pianist	84	469
Sofa bed	5	52
Stringed instruments	84	328
Writing aid	248	118.1*
Armature		
Banding	310	271
Process	29	598
Winding lathes	242	7.4
Coil	310	195*
Ring winding	242	4BE*
Taping	242	5*
Cores	310	216*
Dynamo	290	
Differential wound in arc lamp	314	76
Disk	310	268
Drum	310	265
Multiple	290	6
Pole	310	269
Ring	310	267
Electromagnet	335	279*
Plunger type	335	255*
Electromagnetic switch	335	80*
Electromagnetic switch	335	95*
Electromagnetically actuated in arc lamp	314	119*
Fault tester	324	545*
Growler	324	537*
Making		
Commutator	29	597
Electromagnet	29	602.1*
Rotor	29	598
Manufacture of	29	
Massage device vibrator	128	41
Railway switch motor reciprocating	246	225*
Railway switch motor rotary	246	240*
Testers	324	555*
Wedges	310	261*
Winding apparatus, drum	242	7.4
Transverse slot	242	7.5 R
Winding methods and apparatus	242	
Apparatus, drum winding	242	7.4
Apparatus, transverse slot winding	242	7.5 R
Assemblying apparatus	29	732*
Combined operations	29	605
Method, drum or transverse slot winding	242	7.3*
Miscellaneous	29	605
Ring	242	5
Armchair	D 6	334*
Arming Devices	102	221*
Bomb, flare, & signal dropping	89	1.55
Armor and Armored		
Body armor	2	2.5
Cable	174	102R*
Fittings	174	50*
Conduit	138	123*
Electric conductive sheath	174	102C*
Liner	138	137*
Spirally wound	138	134*
Lock protection	70	417
Piercing ammunition	102	517*
Railroad ties	238	95*
Shields	89	36.1*
Shields and protectors	109	49.5
Port combined	109	58.5
Tires resilient	152	167*
Vehicle	296	188
Railway cars	105	394
Ships	114	9*
Wall structure	109	78
Armpit Shield	2	53*
Fastener	24	903
Arms	D22	
Making	29	1.1*
Aromatic	260	350R*
Hydrocarbon	585	24*
Hydrogenation of	585	266*
Purification of	585	800*
Synthesis of	585	400*

	Class	Subclass
Aromatization		
Hydrocarbon synthesis	585	407+
Mineral oil	208	46+
Arranging or Piling Apparatus (See Assembling; Placers)		
Article	414	788+
Article unpiling	414	795.4+
Articles on conveyors	198	373+
Bulk material by conveyor rotation	198	631
Bulk material by conveyors	198	633+
Cigarette making combined	131	282
Conveyors from static support	198	508
Dried or gas treated material	34	38
Horticultural tools	D 8	1+
Piles arrangements holders or spacers	206	
Sheet material associating or folding	270	
Stackers for fluid current conveyors	406	
Tobacco stringers or unstringers	414	26
Type	276	36+
Arrester		
Cash register key	235	26
Lightning	361	117+
Combined with fuse	337	31+
Design	D10	105
Loom letoff	139	111+
Loom take up	139	314
Metallurgical fume	266	144+
Spark	110	119+
Fixed whirler or rotator deflector separators	55	447+
Illuminating burners having	362	380
Arrhythmia Detector	128	702
Arrow	273	416+
Carriers	224	916*
Design	D22	115
Making	29	1.2+
Sight	33	265
Arsanilic Acid	556	74
Arsenic	423	
Alloys	420	579
Arsenates	423	602+
Azoles containing	548	102
Biocides containing	424	621+
Organic	514	504
Carbocyclic or acyclic compounds containing	556	64+
Halides	423	462+
Medicines containing	424	621+
Organic compounds of	514	504+
Misc. chemical manufacture	156	DIG. 81
Oxides	423	617
Pyridine nucleus compounds	546	72
Pyrometallurgy	75	706
Sulphides	423	511
Arsenites	423	601
Arseno Carbocyclic or Acyclic Compounds	556	65+
Arsphenamines	556	66+
Art (See Subject Involved)		
Collage	428	39
Etching process	156	658
Non-uniform coating	427	256+
Ornamental stitching	112	439
Sectional layer	423	410+
Superposed elements	428	77+
Artery, Artifical	623	1
Article (See Type of Article)		
Advertising design	D20	10+
Carrier	224	
Hunting coats	2	94
Controlled burner	126	52
Cooling		
Magazine type cabinet	312	36
Dispensing	221	
Fabric delivery roll holder	242	55.2+
Magazine type	312	35
Match and toothpick	206	102+
Packages	206	233
Pellet pill tablet pocket use	206	528+
With heating or cooling	221	150R
With treating means	221	135+
Handling (See process or machine with which associated)	414	
Conveyors	198	
Hand or hoist line implements	294	
Land vehicle compartment	296	37.1+
Stacking		
Dispenser	221	175
Article Support Brackets	248	200+
Specially mounted or attached	248	205.1+
Corner	248	220.1
Interlocked bracket and support	248	220.2+
Post or column attached	248	218.4+
Support being pierced or cut	248	216.1+
Articulated Fuel	44	531
Articulator	433	54
Artificial (See Imitation, Synthetic)		
Arms	623	57+
Artery	623	1
Boards		
Laminated	428	105+
Particle	428	403
Body member	623	
Electrical actuation	623	24+
Fluid actuation	623	26
Bones	623	16
Butter		
Making	426	603+
Renovating or treating		
Apparatus	99	452
Process	426	663
Ear	623	10
Eye prosthesis	623	4+
Fauna	428	16
Feet	623	53+
Fiber		
Making	264	165+
Plasticizing	8	130.1+
Fingernails	132	73
Fish bait	43	42
Trap hook combined	43	35
Flies	43	42.24+
Flora	428	17+
Flower	428	24+
Fog	252	305
Fuel (See fuel)	44	
Garland	428	10
Grass	428	17
Heart valve	623	2
Horizon		
Levels and plumbs	33	365+
Light ray type measurement	33	320+
Insemination	604	906
Intelligence	364	513
Speech signal processing	364	513.5
Larynx	623	9
Leather	428	904*
Legs	623	27+
Musk	568	375
Nose	623	10
Reef	405	21+
Respiration	128	28+
Seaweed	405	24
Silk		
Cellulose ester or ether containing composition	106	169+
Cellulose or derivative	536	56+
Chemical modification	8	129+
Cuprammonium compositions	106	167
Dyeing processes & compositions	8	
Filament forming apparatus	425	66
Filament forming apparatus	425	67+
Filament forming apparatus	425	76
Filament forming apparatus	425	382.2
Filament forming process	264	165+
Nitrogen containing	536	30+
Regenerated cellulose	106	168
Spinning or twisting process	57	76
Spinning or twisting strand structure	57	243+
Swelling or plasticizing	8	130.1+
Viscose compositions	106	164+
Snow	106	
Exhibitor	40	
Sod	428	17
Stone		
Dyeing	8	523
Firing	264	56+
Inorganic settable ingredients	106	638+
Molding process	264	333
Precious stone	501	86
Static mold	249	140
Water glass plaster of paris	106	611
Water glass portland cement	106	606+
Stone decorative face	52	311+
Teeth	433	167+
Molds	425	2
Molds	425	175
Static mold	249	54
Three dimensional product	428	15+
Tobacco	131	353
Trachea	623	9
Tree	428	18+
Turf	428	17
Wreath	428	10
Artillery	89	
Calculators ordnance control	235	400
Sights	33	235+
Artist (See Painters and Painting)		
Canvas carriers	294	137
Fine arts materials	D19	35+
Materials, design	D19	
Paint boxes	206	1.7+
Palette	D19	35+
Artwork		
Sheet bearing	428	195
Asbestos		
Catalyst carrier	502	439+
Chemical treatment	423	
Comminution	241	4
Fiber liberation	162	153+
Non-structural laminates	428	443+
Ascarite	252	408.1
Ascorbic Acid	549	315
Tests for	436	129*
Ascot	D 2	605*
Aseptic Cultivation	435	800*
Ash		
Ashpan boiler feed heaters	122	413
Cans	110	165R+
Cigars and cigarettes with ash holder	131	349+
Furnaces	110	165R+
Holder combined with smoking device	131	174+
Sifters	209	233+
Design	D23	420
Stoves	126	242+
Tray	232	43.1+
Combined with other devices	131	231+
Design	D27	102+
Gas separation, used in	55	385.8
Luminous	250	462.1
Vehicle, built in	296	37.9
Vehicle mounted	131	329+
Asparagus Harvester	56	327.2
Asphalt	208	22+
Binders in coating compositions	106	DIG. 7
Cement	106	273.1+
Compositions	106	273.1+
Alkali metal silicate	106	622
Carbohydrate	106	216
Carbohydrate gum	106	207
Casein	106	145
Cellulose ether or ester	106	191
Coating or plastic emulsions	106	277
Emulsions	252	311.5
Fat or fatty acid salt	106	269
Fatty oil	106	246+
Feathers hair or leather	106	156
Gelatine or glue	106	134
Ink	106	31
Mold	106	38.8
Mold coating	106	38.25
Natural resin	106	232+
Natural resin and drying oil	106	225
Natural resin and nondrying oil	106	229
Plaster of paris	106	670
Polish	106	10
Portland cement	106	668+
Prolamine	106	152
Protein miscellaneous	106	160
Starch	106	212
Making, treating and recovery	208	39+
Melting furnaces	126	343.5 A
Mixers	366	1+
Design	D15	19
Pavements	404	17+
Paving machinery	404	83+
Polymers containing or derived from (See synthetic resin or natural rubber)		
Aspirator		
Body fluids	604	19+
Flowing liquid aspirates gas	261	DIG. 75
Body inserted	604	35
Jet pump	417	151+
Mixing	137	888+
Static mold	249	102+
Aspirin	560	143
In drug	514	165
Assembling		
Apparatus	29	700+

	Class	Subclass
Caps and cartridges	86	12
Chain links	59	25
Chains	59	1+
Chains sprocket	59	7
Cleaning combined	134	59
Electrostatic type	29	900*
Liquid purification	210	232
Matrices type casting	199	9+
Nailing and stapling combined	227	19+
Press type filter	210	230
Supporters garment	223	49
Tire and rim	157	
Welding combined	228	4.1+
Bolts nuts and washers	10	155R+
Boxes		
Closure cap and liner	413	56+
Laminating	156	
Electric discharge devices	445	23+
Hinges	29	11
Lamps and vacuum tubes	445	23
Apparatus	445	60+
Processes	445	1+
Mold parts	164	339+
Processes		
Batteries	29	623.1+
Electrostatic type	29	900*
Receptacle with closure	413	2+
Apparatus	413	26+
Sheet material	270	
Shoe heels	12	50+
Shoe uppers	12	52
Textile fibers	19	144+
Wall	166	373+
Assembly Means		
Fluid handling	137	315
Pipe joint	285	18
Associating Sheet Material	270	
Tobacco leaf	131	327
Asserter (See Associated Process, Article, or Machine)		
Brush making	300	18
Cleaning machines combined	15	3+
Coin	453	3+
Livestock	119	155
Printing machines combined	101	
Solid material	209	
Astrolabe	33	1R
Astrology	434	106
Astronomical Instrument		
Clock	368	15+
Globes	33	268+
Optical	356	138+
Solar position locator	33	268+
Telescopes	350	537+
Tellurions	33	268+
Astronomy Teaching	434	284+
Astrophysical Instruments		
Angle measurement	33	281+
Solar	33	268+
Spectroscope	356	300+
Telescope	350	537+
Astygmatism		
Ophtahalmic lenses for correction	351	176
Test chart	351	241
Athletic		
Equipment (See type)		
Mens shoes	D 2	309
Protective hand covering	D29	20+
Shoes, making	12	142P
Shorts	D 2	42
Atmometer	374	39+
Atmosphere		
Special atmosphere	156	DIG. 89
Utilizing special		
Glass making	65	32.1+
Refrigeration	62	78
Atmospheric Electricity	307	149
Chemically inert or reactive	425	815*
Collecting	310	308+
With condenser	320	1
Discharging	361	212
Grounding	174	6+
Lightning rods	174	2+
Atomic Energy	376	
Fission reactions	376	349
Fusion reactions	376	100
Power utilization	376	336
Power utilization	376	402
Power utilization	376	370
Power utilization	376	391
Transmutation reactions	376	156
Well processes	166	247
Atomic Hydrogen Welding	219	75
Atomizer	239	
Container or bottle with	D28	91.1
Electrically heated	392	386+
Electrically heated	392	324+
Fumigator	422	305+
Gas liquid contact	261	78.1
Non-carboretor	261	78.2
Internal combustion engine supply	123	434+
Liquid fuel burner	239	
Medical	D24	62
Medicator	128	200.14+
Perfume	239	355+
Sprayer	239	337+
Temperature responsive control	236	8
Atropine	546	131
In drug	514	304
Attack Defeating Locks		
Mechanism	70	1.5+
Key lock	70	416+
Attempering		
Canned food processors	99	367+
Conveyor combined	99	361
Attenuator	333	81R
Light conductor with photocell	250	227.11
Pads	333	24R+
Resistance structure	338	
Voltage magnitude control resistors	323	369
Attic		
Fans	416	
Inlet	98	39.1
Inlet and outlet	98	33.1
Outlet	98	42.2
Ventilators	98	29+
Attitude or Pitch Indicator	33	328+
Attrition Comminutor		
Apparatus	241	284
Suspended particles	241	39
Processes	241	26
Suspended particles	241	5
Auction		
Livestock tags	40	300+
Audience		
Radio survey	455	2
Reaction apparatus		
Loudness meter	73	646
Voting machines	235	51+
Television survey	358	84
Audio Amplifier	330	
Audio-visual Teaching Machine	D19	60
Audiometer	73	585
Design	D24	21+
Audion T M		
Amplifier, electronic tube type	330	
Cathode ray tube structure	313	364+
Miscellaneous systems	328	
Oscillation generators	331	
Structure	313	
Audiphone	381	68+
Amplifier for	330	
Auditorium	52	6
Acoustics	181	30
Auger (See Bit; Drill)		
Boring machines wood	408	199
Earth boring	175	394+
Land anchors	52	157
Manufacture		
Dies	72	470+
Machines	76	2+
Processes	76	102
Twisting stock	72	299
Mortising machines wood	144	69+
Post base	52	157
Wood	408	199+
Auramine	564	269
Auricle	181	129+
Aurines	552	115
Fuchsone	552	115
Autoclaves	422	242
Cooker (See steaming food)		
Autocollimator	33	297+
With photocell	356	152+
Autofrettage	29	1.11
Autogenous Bonding		
Of particles	264	123+
Of running length fibers	156	180+
Of self-sustaining laminae	156	308.2+
Autogenous Welding	228	196+
Electric	219	78.1+
Autogiro	244	17.11+
Aerial toy	446	36+
Airplane combined	244	8
Autograph Register	D18	21
Autoharp T M	84	8+
Automatic (See Controller & Control)		
Automated machine		
Broaching	409	245+
Gear cutting	409	2+
Milling	409	80+
Planing	409	289+
Camera		
Exposure control	354	400+
Focusing	354	410+
Cutouts for electric circuit	200	
Electromagnetic	335	
For lamp circuit	315	
Dispenser	222	52+
With cutoff operator	222	14+
With recorder register or indicator	222	23+
Drying and gas or vapor contact with solids	34	43+
Earth boring means	175	24+
Fire alarms	116	101+
Electric	340	500+
Flame	340	577+
Heat	340	584+
Smoke	340	628+
With indicator	116	5
Fish butchering	17	54
Flexible partitions and panels eg curtains	160	1+
Food treating machine	99	486+
Glass making apparatus	65	160+
Grain hullers and scourers	99	488
Grappies	294	110.1+
Gun (See gun)		
Heat exchange	165	13
Heating and cooling	165	14
Heating systems	237	2R+
Metal deforming		
Mining control	299	1
Apparatus	72	6+
Musical instruments	84	2+
Comb type	84	94.1+
Electrical tone generation	84	600+
Stringed eg pianos	84	7+
Two different instruments	84	2+
Wind eg organs	84	83+
Nuclear reactions	376	207
Press control	100	43
Refrigeration	62	132+
Solid material comminution or disintegration	241	39+
Teller machine		
Using cryptographic code	380	24
Temperature or humidity regulation	236	
Cereal puffing apparatus	99	323.4+
Cooking apparatus	99	325+
Distillation separatory processes	203	2
Distillation separatory systems	202	160
Electronic tube or lamp	315	117
Humidor	312	31+
Hygrostats	73	335+
Infuser, eg percolator	99	281+
Liquid heaters and vaporizers	122	446+
Mineral oil distillation condensers	196	141
Mineral oil distillation vaporizers	196	132
Thermostats	60	527+
Water heater vessels	126	374
Tool driving or impacting device	173	2+
Volume control		
Amplifier coupling impedance	330	144+
Amplifier having of bias or power supply	330	127+
Amplifier thermal coupling impedance	330	143
In radio receiver	455	234+
Wave transmission lines & networks	333	17.1+
Weigher	177	60+
Cigar and cigarette making	131	280
Automation (See Robot)	901	1*
Automobile (See Land Vehicle, Motor Vehicle)		
Air bag passenger restraints	280	728+
Beds	5	118+
Cribs	5	94
Body crushers	100	901*
Carburetor (See carburetor)	261	
Compound repair tools	7	100+
Cooler	62	243

	Class	Subclass
Door handle	D 8	300+
Electric distribution systems	307	10.1+
Electric motors	D13	112
Fender covers	280	762+
Frame straightener	72	705
Headlight	362	61+
Design	D26	28+
Dimming system	315	82+
Electric system for	315	82+
Mutually responsive automatic dimmers	315	82+
Retractable	362	65
Sealed beam	313	113+
Heater	237	12.3 R
Heater and cooler	165	42+
Hood light	362	80
Horn	D10	116+
Insignia	D11	95+
License tags	40	200
Changeable year section	40	207+
Lift or hoist	269	58+
Lights combined with part	362	61+
Ceiling or roof light	362	74
Mirrors	350	600+
Plural	350	612+
Plural reflections	350	618+
Miscellaneous equipment design	D12	155+
Name plate fasteners	40	662+
Radio	455	345
Portable	455	346
Portable transmitter	455	99
Registration plates	D20	13+
Roll bars	280	756
Safety belt or harness	297	464+
Motor vehicle system responsive	180	268+
Passive	280	802+
Safety promoting means,	180	271+
Seats	297	
Crash	297	216
Design	D 6	334+
With body modification	296	63+
Shipped as freight	410	4+
Group of bodies shipped	410	43
Signals	116	28R+
Electric	340	425.5+
Lamp supply systems	315	77+
Stop electric	340	479+
Simulators	434	65+
Steering post or wheel		
Fluid handling	137	352
Lock for pilot wheel control or linkage	70	253
Suspension systems	280	688+
Stub axle mounts	280	660+
Tailpipe muffler	181	227
With exhaust pipe	181	228
Tape storage for cars	D 3	35
Toy	446	431+
Sounding	446	409+
Transmission jack	254	DIG. 16
Trunk light	362	61+
Switch	200	61.62+
Turntables	104	44
Ventilation	98	2+
Wheels and axles for land vehicles	301	
Aligning tools, hand	29	273
Lock for spare or mounted wheel	70	259
Window defrosting (See window)	52	171+
Autophon	84	83+
Autosyn (See Selsyn)		
Averaging, Aromatic Hydrocarbon Synthesis	585	474
Aviaries (See Bird)		
Awakener		
Bedstead related	5	131+
Clock	368	12
Alarm	368	244+
Person contacting	116	205
Time operated	368	12
Time alarm except clock	111	91+
Electric	340	309.15+
Awl	D 8	47
Leather	30	366
Needles	223	104
Punch type	30	366
Sewing		
Implement	112	169
Machine	112	48
Shoe making	12	103
Surgery	606	222+
Awning	160	45+
Design, fabric type	D25	57
Head rod bracket	248	273
Non rigid structure	160	45+
Storage or shield combined	160	22
Rigid structure	52	74+
Design	D25	57
Window closing	49	71
Ax	30	308.1+
Design	D 8	76
Diaphragm	92	96+
Holder	224	234
Making		
Blanks	76	103
Dies	72	470+
Machines	76	7+
Processes	76	103
Rack	211	13+
Type cutlery	30	318
Axle		
Box		
Manufacture dies forging	72	356
Manufacture dies forging railway car	72	343+
Railway car	29	168
Railway car mounting	105	218.1+
Wheel combined	301	109+
Gauge	33	193
Housings	74	607
Lubricating jack	254	32
Manufacture		
Assembly or disassembly tools	29	700+
By metal deforming process	72	
Dies forging railway car	72	343+
Dies forging vehicle	72	356+
Lathes turning	82	104+
Puller	29	244+
Railway	295	36 1+
Removing device	29	277
Rethreading dies	408	20+
Rethreading dies	408	22+
Shafts	301	124R
Skein	301	134+
Spindle	301	131+
Vehicle	301	124R+
Design	D12	160
Vehicle wheel combined	301	1+
Axminster		
Carpet	139	399+
Making apparatus	139	7+
Azaporphyrins	540	121+
Azeotropes	203	50+
Azetidinones	540	356
Azetidines	548	950+
Azetidinones	540	200+
Azides	423	
Inorganic metal azides	149	35
Explosive or thermic containing	149	35
Organic radical containing	552	1+
Azidocillin	540	331
Azimuth Instrument		
Ammunition	102	372
Horizontal and vertical angle	33	281
Horizontal angle	33	285
Optical	356	138+
Solar locating	33	268+
Telescope	350	537+
Azines	544	1+
Azines	564	249
Azo compounds	534	751+
Heavy metal containing	534	701+
Aziridines	548	954+
Azo Compounds	534	573+
Anthraquinone containing	534	654+
Dye compositions containing	8	662+
Several dyes	8	639+
Textile printing	8	445+
Fiber-reactive	534	617+
Indane containing	534	659
Quaternary ammonium ctg.	534	603+
Resorcinol containing	534	682+
Salicylic acid containing	534	660+
Stilbene containing	534	689+
Azoles	548	100+
Acridine nucleus containing	546	26+
Aluminum containing	548	101+
Arsenic containing	548	102
Azo compounds	534	769+
Heavy metal containing	534	710+
Boron containing	548	110
Heavy metal containing	548	101+
Phosphorus containing	548	111+
Silicon containing	548	110
Azomethine	564	271+
Benzoselenazoles	548	121
Benzothiazoles	548	152
Benzoxazoles	548	219
Heavy metal containing	556	32+
Pyridines	546	268
Quinolines	546	152
Azoxy Compound	534	566+

B

B Naphthol	568	735+
Monoazo compounds	534	840+
Preparation from aryl halides	568	739
Baby		
Bath	D23	278
Bottle warmer	126	261+
Chemical reaction	126	263
Electric	219	429+
Carriage	280	47.38+
Convertible to cradle or crib	280	31
Folding	280	639+
Mosquito nets and canopies	5	416
Steering	280	47.11
Chairs	297	
Combined with table	297	136+
Convertible high and low	297	345+
Cradle	5	101+
Cribs	5	93.1+
Diapers	604	358+
Design	D24	50
Doorway safety guard	49	50+
Removable	49	463+
Fences	256	24+
Flatware for	D 7	642+
Food or bottle warmer	D 7	326
Harness (See definition notes)	119	96+
Highchair	D 6	339
Tray	D 6	509
Incubators	600	22
Jumpers	297	274+
Pacifier	606	234+
Design	D24	45
Pen	256	25
With floor	5	99.1
Playpen	D 6	331
Rattles	446	419
Design	D21	65
Rubber pants	2	400+
Absorbent pad holders	604	393+
Design	D 2	10
Safety garments	128	869+
Shoes		
Bronzing	204	20
Teething device	D24	45
Training toilet	D23	296+
Walker	280	87.51+
Vehicle	280	87.2
With seat	297	5+
Bacillus	435	832*
Hydrolase from	435	221+
Bacitracins	530	320
Back		
Pad harness	54	66
Rest	297	452+
Bed	5	70
Boat	114	363
Design	D 6	502
Scratcher	128	62R
Backband		
Harness	54	4
Backfire	261	DIG. 6
Backfire Preventer	48	192
Backgammon	273	248
Backgrounds Photographic	354	291
Backing Dental		
Instrument	433	141+
Making	29	160.6
Metalware shaping	72	54+
Backlash Take up		
Between meshing gears	74	409
Planetary gearing	475	346+
Sectional gear	74	440+
Milling work feeds	409	146
Backpack	224	153+
Backrest	D 6	502
Backspace on Typewriter	400	308+
Backstay on Car Tops	296	144
Backstop		
Baseball	273	26A
Projectile	273	410
Target	273	404+

	Class	Subclass
Backup Auto Lights	362	257+
Backwash		
Filter cleaning	210	108
Filter with	210	333.1
Fluid cleaning airpump	210	411
In multi-way valve	210	425
Sand bed with rehabilitation means	210	275+
With additional cleaner	210	393
Bacon	426	645
Packaging	53	DIG. 1
Preservation	426	332
Bacteria	435	
Fertilizer preparation with	71	6+
Liquid purification by	210	601+
Virus culture on	435	235+
Bactericidal		
Compositions	424	
Bacteriophage	435	235
Measuring or testing	435	5
Bacteriostatic		
Compositions	424	
Badge	40	1.5+
Design	D11	95+
Film radioactivity	250	475.2
Film radioactivity	250	472.1
Badminton (See Tennis)	273	411
Rackets	273	67R
Baffle (See Process or Machine with which Associated)	416	
Acoustical muffler structure per se	181	264+
Acoustical muffler with	181	264+
Amalgamator agitator	209	187
Animal muzzle	119	131
Cleaning and liquid contact with solids	134	182
Decanter	210	513+
Diverse separators	210	294+
Drop water	122	188
Fire tube boilers	122	44.1+
Fuel	122	503
Furnace	110	322+
Loud speaker	181	175+
Mercury coated for amalgamating	209	54
Particulate material separators	210	285+
Pipe and tube	138	37+
Railway dumping car	105	279
Tank gas and liquid contact	261	123
Tower gas and liquid contact	261	108+
Turbine stator	415	148+
Vane	415	208.1+
Vehicle body top board	296	33
Water tube boiler	122	235.17+
Bag (See Pouch; Receptacle; Sack)		
Abrading material filled	51	294
Airship gas cell construction and arrangement	244	128
Balloons	244	31+
Inflation	244	98
Belt or body attached	224	205
Straps crisscross shoulders	224	209+
Theft or loss resistant	150	102
Blood	604	403
Brief bag or case	190	900*
Closures	383	42+
Clothespin		
Design	D32	36
Package	D 9	305
Colostomy	604	338+
Explosive powder	102	282
Fabric	139	389+
Fastener	24	30.5 R+
Shirring cord	383	72
Traveling bag handle	16	110R
Feed	119	65+
Flexible	383	
Closures	383	42
Fountain syringe with tubing	206	69
Garment	206	278
Gas separator	55	361+
Golf	206	315.3
Holder	248	95+
Sorting racks as for mail bags	211	12
Hot water	383	901*
Ice	383	901*
Inflatable for raising vessels	114	54
Locks for	70	64+
Mouth support	141	391
Paper		
Closures	383	42+
Making of bag	493	186+
Opening	206	601+
Pocketbook	150	100+
Closures	150	118+
Saddlebag	224	191+
Sewing machine	112	10
Filled bags	112	11
Filling and closing	53	139
Sleeping	2	69.5
With bed structure	5	413
Striking or punching	272	77+
Tea or coffee	426	77
Traveling	206	278+
Design	D 3	30.1+
Turner or reverser	223	39+
Wheeled traveling	280	37
Bagasse Furnace	110	235+
Baggage	190	
Cars	105	355+
Design	D 3	30.1+
Identification tags	40	6
Rack on vehicle, illumination	362	73
Sample case with terraced trays	190	16
Supports	190	18R
Trunks	190	19+
Vehicle attached carrier	224	273+
Wheeled	280	29+
With picnic or lunch unit	190	12R
Bail		
Applying to paper bag	493	88
Ear		
Metallic receptacle	220	91+
Wooden bucket	217	126
Handle		
Basket	217	125
Lantern	362	399
Metallic receptacle	220	94R+
Making or forming wire	140	75
Railway coupling link	213	75R+
Bailer		
Cistern	294	68.22+
Hoisting bucket type	294	68.22+
Well	166	162+
Bait		
Animal food and preparation	426	1
Food		
With poison	424	410
Glass drawing	65	352+
Holder	43	55
Poison	424	84
Baked Products	426	549+
Design	D 1	
Bakelite T M	528	129
Baker and Bakery		
Ovens	432	120+
Peels	294	49
Products	D 1	
Baking		
Molds	99	372+
Ovens domestic	126	273R+
Pans	220	
Balanced to Unbalanced		
Coupling network with frequency characteristic	333	25
In amplifier stage	330	116
Powder	426	562+
With phase inverter	330	116
Balancer	D10	82
Balancing method	29	901*
Beam scales	177	246+
Equal arm weigher	177	190+
Horology	368	169+
Making	29	178
Sash	16	193+
Balancing Machine Parts (See Counterbalance)		
Comminuting elements combined	241	292
Determining balance by computer	364	463
Flywheels and rotors combined	74	573R
Grindstone weights	51	169
Instrument calibrating	73	1R+
Rotor unbalance testing	73	66
Weights for land wheel	301	5R
Wheels vehicle	301	5R
Balata (See Rubber)		
Balconies	52	73
Window connected	182	53+
Bale		
Band tightener and twister	140	93.2+
Portable & detachable tensioner	254	199+
Tightener and sealer	140	150+
Grappling hooks	294	26
Round hay bale handling	414	24.5
Tie	24	16R+
Design	D 8	394+
Making	140	73
Baling	100	
Ball		
Amusement devices	273	58R+
Design	D21	204+
And socket joints (See joints)		
Bearing for typewriter type bar	400	447
Dental tool support	433	64
Vehicle steering mechanism	180	258
Baseball curvers	273	28
Bearing		
Hinge	16	275+
Inking mechanism	400	270.2
Making	29	898.6+
Mounting for ball tool	401	212
Radial	384	452+
Retainer design	D15	143
Thrust	384	590+
Billiard ball spotting racks	273	22
Bowling		
Ball gauge	33	509+
Ball return	273	47+
Grip testing	33	510
Calculator	235	68
Carriers	224	919*
By hand	294	137+
Cash register check	235	18
Chaser grinder		
Frictionally driven	241	103+
Loose ball	241	173+
Clock pendulum	368	179
Cocks toilet tank	137	409+
Games	273	118R+
Golf ball making	156	146
Design	D21	204+
Making	29	899+
Abrading processes	51	289S
Glass	65	21.1+
Hollow metal spheres	72	348
Laminating	156	
Spheroid winding	242	3
Winding	242	2
Wooden balls	142	1
Mill	241	170+
Point pen	401	209+
Point stylus	81	9.2
Racks	211	14+
Pool table attached	273	10+
Sport or game balls	273	58R+
Tea	426	77+
Receptacle type	99	323
Tethered bowling ball	273	40
Time balls	116	200
Ball Cock	137	409
Ballast		
Aircraft	244	93+
Cleaning		
Excavating combined	171	16
Loose material separation	209	
Railway grading combined	37	104
Resistor	338	20+
Ship	114	121+
Tamper	104	10+
Ballers	425	332+
Kitchen hand tool	D 7	681
Balloon		
Aircraft	244	31+
Barrage, antiaircraft	89	36.16
Aerial mine carrying	102	409
Montgolfier type	244	31+
Pyrotechnic device combined	102	356
Railway car attached	104	22
Rocket combined	102	347
Support with antenna	343	706
Toy	446	220+
Design	D21	84
Ballot	283	5
Box	232	2+
Registering	235	57
Counting or voting machine	235	51+
Marking, teaching	434	306
Baluster	52	720
Balustrade	256	59+
Bamboo Seat	D 6	369
Banana		
Banana plugs electric	439	825+
Insulated	439	625+
Band		
Endless band cutting	83	935*

	Class	Subclass
Instruments	84	1*
Lessons	84	470R*
Saw	83	788*
Saw	30	380
Blades	83	835*
Spreading in radio tuner	334	
Filter	333	167*
Using distributed impedance only	333	219*
Band Width		
Reduction system		
Facsimile	358	426*
Multiplex	370	118
Pulse or digital communications	375	122
Radio	455	72
Recording	369	60
Magnetic	360	8*
Speech	381	29*
Television	358	133*
Regulator		
Amplitude modulation	332	159
Frequency modulation	332	123
Pulse modulation	332	107
Bandage	D24	49
Body treating	604	304*
Controlled release of medication	604	890.1*
Electric	128	82.1
Package for coiled type	206	389*
Scissors	30	286
Splints	128	87R
Surgical	128	155*
Application	128	82*
Tire patches	152	371*
Webbing	128	156
Winding	242	60
Banding		
Bale	100	1*
Box covering	493	111*
Brush broom and mop making	300	15
Hat making	223	22
Label pasting and paper hanging	156	
Paper bunch	493	386*
Bandoleer	224	203
Bandsaw	30	380
Banister	256	59*
Banjo	84	269*
Clocks	368	229
Banking, Aircraft Control	244	75R*
Banks & Banking		
Burglar traps	43	59
Checks and deposit slips	283	57*
Coin handling	453	
Deposit apparatus	D99	34*
Depository	D99	43
Depository with verification means	109	24.1
Photographic or microfilming	346	22
Time record-marking	346	22
Indicator for degree of	33	328*
Piggy bank	D99	35*
Protection devices	109	2*
Safes	109	
Toy	446	8*
Banners		
Flag type	116	173*
Design	D11	165*
Rod	D11	181*
Sign type	40	
Baptismal Font	D99	25
Bar (See Rod)		
Boring	408	199*
Counters	312	140.1*
Crow	254	120
Horseshoe blank	59	62*
Lingual	433	190
Manufacture (See particular operation)		
Compound metal bars	228	4.1*
Drawing	72	274*
Extruding metal	72	253.1*
Indirectly	72	273.5
Horseshoe blank rolling	59	63*
Juxtapose and bond metal bars	228	101*
Rolling	72	199*
Masonry reinforcing	52	720*
Metal shape	428	544*
Design	D25	119*
Metallic plural layers	428	615*
Mining bar cutter	299	79*
Needle for sewing machine	112	222
Sash bar	52	777*
Splice rail joint	238	243*
Insulated	238	159*
Towel	211	105.1*
Type printing	101	401.1
Forming machines	101	401.6
Processes of forming	101	401.4
Wrecking	254	120
Barb		
Applying to wire, barbing	140	58*
Cutting fence barbs	29	7.1
Fences	256	2*
Hayfork type of harpoon having	294	127*
Nails having barbs	411	456
Staple barbing	59	73*
Tag fastener	40	669*
Wire	140	59
Barbecues	99	419*
Cooker	D 7	332*
Fork	30	322*
Turners	99	419*
Barber		
Cabinets	312	209
Chairs	297	68*
Design	D 6	334
Implement with light	362	115
Poles	40	538
Design	D20	16
Tweezers	606	133
Barbital	544	307
Barbituric Acids	544	299*
In drug	514	270
Barges	114	26*
Cranes	212	190*
Barium		
Alkali earth metal	23	304*
Naphthenate	562	511
Bark		
Debarking	144	340
Extract	560	68*
Descaling agent ctg	252	83*
Osier peelers	144	207
Rossing	144	208R
Stripping machine	144	208R
Branches	144	207
Barkhausen Kurz Oscillator	331	92*
Barn	119	16
Barometer	73	384*
Design	D10	55
Barometric Material Feed		
Animal watering trough	119	77
Dispenser trap chamber	222	457
Gas liquid contact device	261	73
Inkstand or inkwell	222	585*
Liquid level miscellaneous	137	453*
Lubricator	184	84
Supply container and independent applicator	401	120
Barrel (See Cask; Container)		
Bungs	217	98*
Charring	432	224
Cleaning		
Brushing implements	15	164*
Brushing machines	15	57*
Methods	134	22.1*
Washing apparatus	134	43*
Wipers	15	211*
Closures	217	76*
Design, package simulates shape	D 9	325
Design, shipping	D34	39
Drying	34	104*
Methods	34	21
Electrolytic apparatus	204	213*
Filling	141	
Firearm	42	76.1*
Breech hinged	42	8
Forward sliding	42	10*
Moving and recoiling	89	160*
Muzzle loading	42	51
Recoiling with revolving chambers	89	157
Revolver hinged	42	63*
Side swinging	42	12*
Stock fastenings	42	75.1*
Swinging barrel locks	42	44*
Heads	217	76*
Interior illuminators	362	154
Laterally directed		
Drop bomb	102	383
Shell	102	383
Liquid level indicators	73	290R*
Making	147	
Sheet metal container	413	1*
Metal receptacle	220	
Ordnance	89	14.5*
Moving and recoiling	89	160*
Practice	89	29
Recoil checks	89	42.1*
Organs	84	86
Paper receptacle	102	480
Periscope for examining interior	350	540*
Plugs	217	110
Collapsible bulb	604	212*
Removing bungs	137	324*
Syringe pump hand held	604	187*
Tapping	137	317*
With cutter or punch	222	81*
Watch	368	142*
Wooden receptacle	217	72*
Insulated	217	131
Barrette	132	278*
Design	D28	39*
Barrier (See Ceiling; Floor; Gate; Wall)		
Building construction	52	
Static mold or form for making	249	18*
Flight deck	244	110R
Neutron	376	287
Neutron	250	518.1
Neutron	376	347
Floating	405	63*
Impact absorbing closure	49	9
Race track	119	15.2
Radiation	250	505.1
Process	55	16
Solid, for gas separation	55	158
Subterranean moisture	405	38
Barrier Layer		
Coating	437	
By electrolysis	204	14.1*
Dry rectifier	357	
Composition	252	62.3 R
Manufacture	29	25.2*
Electrolytic condenser or rectifie	361	500*
Electrolyte	252	62.2
Manufacture	29	25.1*
Material P N type	148	33
Making P N type	437	
Barrow		
Dumping	298	2*
Hand	294	15*
Wheel	280	47.31
Bascule Bridges	14	
Base Exchange		
Compositions	252	193
Water treating	423	328*
Silicates	423	
Water purification	210	660*
Apparatus	210	263*
Baseball	273	25*
Balls	273	60R
Bats	273	72R
Card or title games	273	298
Cover sewing machine	112	121.28
Game board	D21	28
Glove	2	19
Design	D29	21
Projector	124	
Simulated game	273	88*
Bases (See Foundation)	248	346
Apparel apparatus	223	120
Bed plate	52	292*
Compositions	252	193
Curved wall	52	247
Dispenser supports	222	173*
Electric lamp	439	611*
Electric switch	200	293*
Flatiron	248	117.2*
Inorganic	423	
Lanterns and lamps	362	190
Air preheating type	362	172
Chimney	362	314
Design	D26	93*
Shade	362	441*
Machinery	248	678
Organic	260	
Pole	52	292*
Concrete type	52	294*
Prop and brace	248	357*
Robot	901	
Staff	248	519*
Stand	248	188.1*
Swinging for movable receptacle	248	144
Vehicle runner	280	28
Basin (See Bowl)		
Auxiliary in ship lifting locks	405	4*
Bath	4	619*

	Class	Subclass
Design	D23	284+
Bath fittings	4	191+
Cabinet combined	312	228
Canal locks	405	85+
Dispenser drip	222	108+
Drinking fountain catch	239	28+
Model	73	148
Receptacle type	220	
Sewerage catch	210	532.1+
Grated inlet	210	163+
With strainer	210	299+
Surgical receptors	604	317+
Basket (See Container; Creel)		
Closures	217	124
Design	D11	143+
Creel	D 3	38
Electrolytic cell electrode	204	259
Flaccid material on frame	220	9.1+
Forming	147	48
Ski pole	280	824
Wire	220	485
Wooden	217	122+
Basketball Devices	273	1.5 R
Balls	273	65R
Teaching	434	248
Bass		
Bars for violin	84	276
Drums	84	411R+
Finders	84	470R+
Violin	84	274+
Viols	84	274+
Bassinet	D 6	390
Bassoons	84	380R+
Basting	99	345+
Brush	D 4	130
Bat (See Batt)		
Forming apparatus for hats	19	148
Game and amusement device	273	67R+
Baseball	273	72R
Design	D21	211+
Harvesting reel	56	219+
Batch Charger		
Furnace type	414	167+
Glass furnace combined	65	335
Batch Mixer		
Bread pastry and confection	366	69+
Batch feeder and furnace	65	335
Mortar	366	1+
With heat exchanger	165	109.1
Bath	4	
Bird	119	1
Design	D30	123
Brush	D 4	132
Cloth	D28	63
Design	D23	277+
Fused salt	266	120
Heater	D23	318+
Material supply coated or impregnated	15	104.94
Mitt	15	227
Design	D28	63
Photographic (See photography)		
Quench	266	130+
Sponges	15	209R+
With soap	401	201
Room accessories	D 6	524
Sponges	15	209R
Design	D28	63
With soap	401	201
Steam or sauna	D24	37
Therapeutic	128	365+
Tub or footbath, therapeutic	D24	38
Bathing		
Garments	2	67+
Buoyant	441	88+
Hat	D 2	510+
Suit	D 2	36+
Trunks	D 2	42+
Pools	4	488+
Swimming pool purification	210	169
Shoes	36	8.1
Sandals	36	11.5
Shower	4	596+
Shower nozzles	239	548+
Tubs	4	538
Bathometer	73	300
Bathroom		
Disinfection	4	222+
Fixture liners	4	DIG. 18
Prison bathrooms	4	DIG. 15
Ventilation	4	209R+
Bathtub (See Receptacles)	4	538+
Antislip mat	4	582
Bath and basin fittings	4	191+
Design	D23	277+
Fittings	4	191+
Seat	4	578
Soap dishes with soap handling means	206	77.1
Support	4	571+
Therapeutic	128	369+
Water cutoff device	4	191+
Bating	8	94.17
Fermentative	435	265
Batiste	139	426R
Baton	D21	100
Illuminated	362	102
Music conductors type	84	477B
Batt		
Bonding with	156	62.6+
Forming articles from	264	116
Impregnation of workpiece by	264	136
Mechanical molding of article	264	257
Multilayer metal receptacle with	220	452
Special package for reel or roll	206	417
Battery (See Electret)	136	
Applications	136	291*
Assembling components	29	730+
Methods	29	623.1+
Bonding apparatus	228	58*
Bonding process	228	901*
Cable terminals	429	179+
Carrier	224	902*
By hand	294	149+
By hand	294	903*
Cases	429	164+
Charge indicator	324	427+
Battery attached	429	90+
Charger	320	2+
Design	D13	107+
Material electrolyte	429	189+
Material regenerating	429	17+
Circuit applications	136	293*
Clamps for terminals	439	754+
Deferred action	429	110+
Depolarizer	252	
Design	D13	+
Electro chemical	429	
Electrode receptacle		
Conducting	429	239+
Nonconducting	429	235+
Electrolytic cell internal battery	204	248+
Electronic tube having	315	55
Filler	429	233
Flash lights using	362	157+
Grid	429	233+
Filling	141	32+
Making	29	2
Pasting	141	32+
Handling hand and hoist line implements	294	
Holddowns, vehicle mounted	248	503+
Holders in automobiles	180	68.5
Hydrometers	429	90+
Internal or electrolytic		
Cell	204	248+
Cleaning process	204	144
Protecting apparatus	204	197
Protecting process	204	148
Water treatment	204	150
Jar	429	163+
Metal platemaking	29	623.1
Motor fed systems	318	139
Nuclear	310	301+
Photoelectric	136	243+
Plate forming	204	6
Plate making	29	2
Plugs	429	89
Prime mover dynamo plant with	290	50
Radioisotope-powered	136	202
Radioisotope-powered	376	317
Receptacle acidproof	206	524.1+
Regenerating material	429	19+
Separator	429	247+
Solar cell	136	243+
Space satellite applications	136	292*
Stoppers	429	89
Storage	429	149+
Surgical application	128	391+
Switches	320	2+
Terminal	429	179+
Applying or removing apparatus	29	246
Protector	429	65
Tester	D10	77
Testing	324	426+
Accessories	429	90+
Calibrating, treating, testing	136	290*
Charging combined	320	47
Hydrometer	73	441+
Integral with battery	429	90+
Thermoelectric	136	200+
Vent caps	429	89+
Batting	19	296
Package for	206	389+
Battle Lanterns		
Flashlight type	362	157+
Bay Window	52	201
Bayonet	30	
Gun combined	42	86
Holder	224	232+
Holder	224	232
Joint (See joints)	362	35
Beacon		
Aircraft	362	262
Radio	342	385+
Directive radio	342	350+
Rotating	342	398+
Floating marine	441	1+
Illuminating lights	362	35
Radar transponder	342	42+
I F F	342	45
Signal lights	340	
Air craft	340	981+
Bead and Beading		
Adsorbent or catalytic	502	527
Bead chain making	59	2
Garment supporting	2	300
Glass compositions	501	33+
Glass manufacturing	65	21.1+
Apparatus	65	142
Lathing corner beads	52	255+
Metal beading	72	67+
Metal molding of	164	179
Curving and	72	298+
Tube forming and	72	149+
Metal tube corrugating	72	367
Necklace	63	2
Design, strung	D11	11
Rosary	235	123
Design	D99	26
Sewing on with sewing machine	112	104+
Shoe		
Heel beading machines	12	49
Upper beading machines	12	57.1
Spreaders for tires	254	50.1+
Spread holders	81	15.3
Tire mounting combined	157	1.17+
Stringing	223	48
Apparatus	29	241
Method	29	433
Tire beads	152	539
Window bead fasteners	16	220
Beakers (See Receptacles)	422	102
Dispensing	222	566+
Molten metal	222	591+
Measuring	73	426+
Beam		
Brake	188	219.1+
Design, architectural	D25	126+
I-shaped beam cutter	83	DIG. 2
Locomotive truck buffer	105	173
Masonry	52	723
Mortar and block	52	433
Method	72	365.2
Plow	172	681+
Power amplifier	313	299
Rectifier	313	298
With beam forming electrodes	313	299+
With two cathodes	313	5
Railroad ties I beam	238	65+
Two part	238	57
Scales	177	246+
Static mold	249	50
Support for brackets	248	228
Pipe or cable type	248	72
Beam Lead Frame or Device Structure	357	69+
Making	29	827
Beam-trammel Distance Device	33	810+
Beaming	28	190+
Beanie	D 2	256
Beans	426	629
Bearing (See Journal)	384	
Brasses or linings	384	276+

	Class	Subclass
Clutch throwout	192	1108
Connecting rod adjustable	74	594
Design	D15	143
Fishing reel	242	320
Hydrostatic bearing with gearing	409	904*
Lathe headstock	82	148
Manufacture		
Assembly apparatus roller and bearing ball	29	724+
Processes	29	898+
Fluid	29	898.2
Linear	29	898.3
Rotary	29	898.4
Rotary anti-friction	29	898.6*
Rotary self adjusting	29	898.43+
Rotary sleeves and bushings	29	898.54+
Rotary thrust	29	898.41
Processes of grinding	51	289R*
Materials	252	12+
Piano pedal	84	228
Pullers	29	244+
Rudder post	114	169
Separator, imperforate bowl centrifugal	494	83
Testing frictional resistance	73	9+
Turntable railway	104	46
Typewriter bar	400	448+
Typewriter carriage	400	354+
Watch and clock	368	324
Wringers	68	269R
Beat Note in Detector		
Autodyne detector	455	321+
Heterodyne detector	455	313+
Homodyne	455	324
Beater		
Agitator	366	343+
Cleaning	15	89+
Implements	15	141.1+
Rotary	15	141.2
Cloth finishing	26	25+
Comminuting processes	241	27
Drum and cymbal	84	422.1
Fiber liberation and preparing	19	85+
Brakes and beaters	19	30
Decorticating	19	33
Heat exchanging	165	92
Meat tenderer	17	25+
Paper fiber engine	241	97
Pastry and confection	366	69+
Rotary beater mill	241	185R+
Perforate casing	241	86+
Screen	209	299
Cleaner	209	383
Shoe welt	12	67.2
Textile braider and	87	36
Wire twister and	140	32
Portable machine	140	42
Beauty Parlor Equipment	D28	9+
Bed (See Associated Machine or Tool)	5	
Activated sludge	210	623+
Animal	119	1
Design	D30	118
Attachments and accessories	5	508+
Backpack convertible to	224	156
Baggage convertible to	190	2
Bedding	D 6	382
Bedstead	5	131+
Camping land vehicle	296	174
Clothes holder	24	72.5
Clothing	5	482+
Bed attached	5	498
Weight supporting	5	505
Combination furniture	5	2.1+
Cooling	5	284
Heater combined	165	46
Mattress	5	421+
Refrigerating	62	261
Crib	5	93.1+
Design	D 6	382
Doll or toy	446	482
Exercising device	272	144+
Fan combined	416	146R
Filter (See filter)		
Frame component	D 6	503+
Garment		
Gown type	2	114
Pajama type	2	83
Glass molding		
Planar platen	65	256+
Heater	126	205
Cooling combined	165	46
Electric	219	217
Mattress	5	421+
Mattress electric	219	217
Medicator combined	604	113+
Surgical	128	376+
Horticultural	47	18
Hotbed	47	19
Invalids	5	60+
Jacket, apparel	D 2	12+
Light combined	362	130
Light thermal electrical application	128	376+
Machine or tool part		
Addressing machines	101	57+
Apparel planing, fluting, shirring	223	31
Bed and platen printing	101	287+
Clothes pressing platen	38	17+
Clothes pressing roll	38	44+
Clothes washing scrubbing	68	63+
Clothes washing squeezing	68	94+
Coopering stave jointing	147	26
Glass molding	65	361
Inkers for printing devices	101	335+
Intaglio printing bed and cylinder	101	158+
Lathe	82	150
Metal bending	72	214+
Multicolor printing bed and cylinder	101	186+
Numbering and printing	101	72+
Planer reciprocating bed	409	321+
Planers woodworking endless	144	128
Planographic copying	101	131+
Planographic printing bed and cylinder	101	146
Printing member and inker	101	104+
Rolling contact printing bed and cylinder	101	214+
Selective or progressive bed and platen printing	101	93+
Solid material stratifier	209	422+
Ticket printing	101	66+
Mattress or cushion	5	448+
Design	D 6	596+
Midrib and center strip	5	192
Modular bedroom lighting	362	801*
Mosquito nets and canopies	5	414+
Pan	4	450+
Design	D24	57
Particulate material separator	210	263+
Pavement or road	404	27+
Person restrainer for	128	869+
Quilts	D 6	603+
Railway car with	105	316+
Ships	114	188+
Sleeping bags	5	413
Sofa	5	12.1+
Spread or cover	D 6	596+
Supported horizontal surface	108	49
Tray	D 6	406
Trunks convertible	190	2
Waterbed	5	451
Window ventilator combined	98	89
Wire bottom frame attaching	140	110
Bedbug Trap	43	123
Bedpan	4	450+
Design	D24	57
Rinser in flush toilet	4	300.2
Bedplate (See Bases)		
Bedroom Lighting, eg Modular Combinations	362	801*
Bedspread	D 6	596
Bedsteads		
Design	D 6	382
Folding	5	174+
Bee Culture	449	
Beeswax purification	260	420+
Feeder	449	5+
Hive	449	3+
Honeycomb type receptacle	449	17+
Smokers	43	127+
Beef Jack		
Closure operators	49	69
Trolley transfer	104	97
Beer	426	592
Apparatus for making	99	275+
Beeswax Purification	260	420+
Beet		
Harvesting devices	171	
Digging then topping	171	26+
Lifters	171	50+
Topping then digging	171	26+
Toppers	56	
Washers	15	3.1+
Beetling	26	26
Beheader Fowl	17	12
Belaying Pin	114	221R
Bell		
And hopper charger	414	204
Combined with blast furnace	266	184
Animal and sleigh	116	170
Automatic musical instruments	84	103
Bicycle	116	166
Church	116	150
Design	D10	116
Combined with escutcheon	D 8	350+
Electric	340	392+
Electrically actuated signals	340	392+
Electrically simulated church bell	340	398
Gas holder		
Inverted bell and tank	48	176
Moving bell	48	179
Sectional telescoping bell	48	177
Glasses for protection of plants	47	26+
Highway crossing type	246	296
Mechanical	116	148+
Musical bell	84	406
Design	D17	22
Musical bell with striker	84	407
Ornamental	428	11
Railway crossing protection	246	111+
Signals & indicators	116	148+
Sound producing	116	148+
Swinging eg church	116	150
Typewriter margin signal	400	712+
Bellows	D23	384
Accordions	84	376R
Cameras	354	187+
Dispenser	222	206+
Fluid pressure responsive	92	3+
Making	29	454
Metal tube corrugating	72	54+
X-art collection	493	940*
Meter	73	262+
Organs	84	355+
Pump	417	472+
Fumigator combustion air	422	305
Belt (See Machine with which Associated)		
Apparel	2	311+
Compressor type	450	154
Design	D 2	627+
Design, garter or sanitary	D 2	625
Elements of supporters	2	338+
Buckle attached	D 2	627+
Carrier mounted onto	224	163
Cartridge feeding	89	35.1+
Cigar and cigarette type machine	131	55
Comminutor type	241	200
Conveyors (See conveyor, endless)		
For dredges	37	69
Couplers	24	31B+
Hook	24	35
Lacing	24	34
Design	D 2	627+
Drive train design	D15	148
Drives	474	
Endless for vehicle fender	293	20
Fastener	24	31R+
Structure for nuclear reactor moderator	376	302
Gearing	474	
Coating to prevent slippage	106	36
Hanger	D 6	315+
Holder for cartridges, fishing lures	D 3	100
Holder or rack	D 6	315+
Holster combined	D 3	101
Hook inserters	29	243.51
Lifting tool	474	130
Making	156	137+
Of leather	69	
Special sewing machine	112	121.27
Mechanisms		
Belt and sprockets	474	
Guards	474	144
Money	224	229
Paper making		
Endless drying	34	243R
Fourdrinier	162	348
Pulleys	474	
Registers	235	125
Reinforced (See reinforcement, fabric)	474	268+
Safety	182	3+

	Class	Subclass
Aircraft	244	122B
Vehicle seat	297	464+
Hand vehicle	280	801+
Motor vehicle	180	268+
Seat belt safety buckle	D11	200+
Shifter	474	101+
For variable speed drive	474	80+
Starting gas pumps and fans	417	223
Stock material	428	
Conveyor type	198	
Drive type	474	237+
Knitted	66	169R+
Laminated	428	
Woven	139	383R+
Support in leather working machine	69	41
Tightener (See notes under)	474	101+
Abrasive belt	51	148
Band type twisting apparatus	57	105
Belt type drying apparatus	34	118
Railway wheel and axle drive	105	105+
Tool holder carried by	224	904*
Tree trunk guards	47	24
Trusses surgical	128	99.1+
V-type	474	237+
Bench		
Cabinet combined	312	235.2+
Greenhouse	47	18
Ladder combined	182	33
Shoemakers	12	122
Table	108	
Wash tub or machine	68	236
Woodworking	144	286R+
Clamps	269	
Design	D 6	396+
Dogs	144	306+
Support for	144	286R
Tool chest combined	144	285
Bench Mark	52	103
Bed plate	52	292+
Bending (See Crimping; Folding)		
Brake	72	310
Chain making machines	59	27
Sheet metal	59	15
Hoof and shoe expanders	168	47
Horseshoe making machines	59	36+
Lock washer making machines	10	73
Metal		
Machines and processes for	72	
Machines combining with other metal shaping	29	34R+
Wire	140	
Working, with bending	29	DIG. 3
Nut making machines	10	74
Other metal shaping	72	
Scale removal by flexing	29	81.3+
Sheet metal seaming by shaping	228	144
Sheet metal seaming machines	72	48+
Sheet metal seaming processes	228	137
Staple making and setting apparatus	227	82+
Staple making machines	59	71
Strength of materials testing by	73	849+
Sweep arm bender	72	217
Tubes	72	367+
Wood	144	254+
Beneficiating Ores	423	1+
Apparatus	266	168+
Bentonite	106	DIG. 4
Benz C Fluoren	549	224+
Benzaldehyde	568	425
Benzanthrenes	552	286+
Benzene (See Aromatic Hydrocarbon)		
Benzidine	534	822+
Disazo compounds from	534	822+
Disazo pyrazoles from	534	760
Tetrakisazo compounds from	534	808
Trisazo compounds from	534	813+
Benzoates		
Ammonia	562	493
Benzyl	560	106
Bismuth	556	78
Caffeine	544	274
Lithium	562	493
Magnesium	562	493
Mercury	556	132
Benzocaine	560	19
In drug	514	535
Benzodianthrenes	552	282+
Benzofuranes	549	462+
Benzoic		
Acid	562	493
Anhydride	562	887
Benzoin	568	331
Benzol (See Aromatic Hydrocarbon)		
Motor spirits	585	14
Benzomorphans, in Drug	514	295
Benzophenazines	544	343
Benzophenone	568	332
Benzopyrenequinones	552	284+
Benzoquinoline	546	101
Benzoquinolzines	546	95
Benzoquinone	552	293
Benzoselenazoles	548	121
Benzothiazines	544	49+
Benzothiazoles	548	152+
Benzothiophenes	549	49+
Benzotrichloride	570	185
Preparation	570	191+
Benzoxazoles	548	217+
Benzyl		
Alcohol	568	715
Butyrate	560	254
Disulphide	568	25
Ether	568	659
Salicylate	560	71
Thiocyanate	558	10
Benzylamine	564	391
Bergamot Oils	512	5
Berry		
Clipper		
Catcher combined	56	331
Holder combined	30	124+
Nipper type	30	175+
Crates	217	40
Berth		
Bunk beds	5	9.1+
Self leveling	114	192+
Sleeping car	105	316+
Beryllium		
Alloy compositions	420	401
Electrolytic synthesis from fused bath	204	65
Pyrometallurgy	75	593
Bessemer Converter	266	243+
Bessemerizing	75	
Iron or steel	75	528+
Beta		
Crystal mounting	250	361R
Gamma survey meter	250	336.1
With sample holder	250	336.1
Beta Alanine	562	576
Beta Globulins	530	394
Betaines	562	
Bethamethasone	552	574
Bevel		
Gear	74	640+
Intercontrolled blades	33	455
Planetary gearing	475	336
Protractor	33	455
Square	33	474
Beverages	426	
Apparatus	99	275+
Beer or pop can	206	139
Can cover	220	903
Carbonated	426	590+
Carbonater	261	
Carbonating and flavoring	99	323.1+
Coaster or mat	D 7	624
Cooler	62	389+
Foam forming or inhibiting	137	170.1+
With selection from plural materials	222	144.5
Electrolytic treatment	204	138+
Mixer blender, household	D 7	376+
Mixing		
By mechanical agitating	366	
Milk shake type	366	197+
By nozzle shape	239	549
Preparation or dispensing machines	D 7	300+
Reusable infusion receptable for preparing beverages	99	323
Storage receptacle	D 7	602+
Vending machines	D20	5
Bezel		
Design	D26	139
Test instrument	73	431
Watch	368	295
Bias Voltage Control in an Amplifier	330	129+
Bib	2	49R+
Dental patient	433	137
Design	D 2	226+
Bicarbonate	423	419R
Drugs or bio-affecting	424	717
Bichromate Cells	429	
Bicycle	280	200+
Attached carrier	224	30R+
Bell	116	166
Brake	188	24.11+
Coaster	192	6R
Convertible	280	7.1+
Cranks and pedals	74	594.1+
Cyclometers (See odometer)		
Design	D12	111
Dust and mud guards	280	152.1+
Exercising devices	272	73
Generator	310	
System	322	1
Handle bars	74	551.1+
Handle or grip design	D 8	DIG. 8
Horn	116	137R+
Hub ball bearing	384	545
Lights	362	72+
Electric signal	340	432
Generator bulb system	315	76
Generator control	322	1
Generator per se	310	
Supports	362	382+
With wheel driven generator	362	193+
Locks	70	233+
Wheel	70	225+
Making		
Frame assembling	29	700+
Methods	29	428+
Pedal crank bearings	384	431
Propelled marine pedomotors	440	30
Racks	211	17+
Rack or holder, design	D12	115
Reflector	350	97+
Seats	297	195+
Simulations	280	828+
Umbrella for	135	88
Wheel	301	5R+
Guards	280	160.1
Scrapers and cleaners	280	158.1
Bidet	4	443+
Design	D23	295+
Bier	27	27
Wheeled	280	47.34+
Extensible	280	640
Tiltable	280	47.17+
Bifocal		
Contact lens	351	161
Spectacle lens	351	168+
Bile Acids	552	548+
Bilge Discharge	114	183R+
Bilirubin	436	97+
Billboard Type Signs	D20	39+
Billets	428	577+
Fault removal	29	526.2+
Harness	24	182
Hame strap	54	28
Hame tugs	54	32+
Piercing	72	325+
Billfold	150	132+
Leather, design	D 3	56
Billiards	273	2+
Balls	273	59R
Chalk	273	17
Cues	273	68+
Tips	273	70
Design, cues and accessories	D21	210
Register operating device	235	91B
Stick or rest	273	23
Tables		
Beds	273	6
Covers	273	13
Design	D21	232
Tops	273	6
Timing device	368	3
Billing Machines (See Printers)		
Bills in Knotting	289	11
Billy Club	273	84R
Design	D22	117
Guns	42	1.16
Biltmore Sticks	33	483
Bimetallic Stock (See Thermostats)	428	615+
Bonded layers	228	101+
Casting	164	91+
Juxtapose and bond layers	228	101+
Making by extrusion	72	258
Shape or structure	428	577+
Ingots	428	585
Bin (See Box; Receivers)		
Charging or discharging	414	288+

	Class	Subclass
Deforming	72	700
Discharging (See dispensing)	222	
Charging and	414	288
Granaries		
Hopper with port	52	192+
Sifter associated	209	370+
Ventilated grain bins	98	55
Binary Compounds, Inorganic	423	509+
Uranium containing	423	253+
Binaural	381	1+
Binder and Binding		
Baling press combined	100	8+
Binder device releasably engaging aperture or notch of sheet	402	
Depository	402	73+
Expander	402	80R
Filler	402	80R
Fly-strip fly-leaf	402	80R
Marker position holder	402	80R
Books	412	
Design	D19	26+
Cooking apparatus combined	99	350
Covering with metal	29	33.2
Severing base combined	29	33.5
Edge binding guide for sewing	112	137
Handle or grip design	D 8	DIG. 8
Harvesting	56	432+
Cutter combined	56	67+
Hat making	223	22
Post	439	775+
Press	100	
Resilient sectional tire	152	300+
Ski	280	611+
Snow shoe	36	126
Table top edge	52	783+
Laminated top	52	783+
Tobacco product	131	365
Vehicle load	410	96+
Water ski	441	70
Wire or band tensioners		
Combined with sealers	140	93.2
Portable & detachable	254	199+
Binding		
With flexible filament band or strand	100	1+
Binding Assays	436	500+
Binding Proteins	530	387
Bingo Games	273	269
Binoculars	350	145
Carrier	224	909*
Cases	206	316.3
Design	D16	133+
Microscope	350	514
Telescope	350	545
Bio-affecting Compositions (See Drug, Bio-affecting and Body Treating Compositions)	514	
Biochemical Oxygen Demand Tests, Bod	436	62*
Biocidally Protected Polymers	523	122
Biocides	424	
Coating or plastic composition	106	15.5+
Detergent with	252	106+
Mineral oil derived	208	2
Water softening or purifying agent	252	175+
Biodegradable		
Plant receptacle	47	74+
Biology		
Coating processes	427	4
Preservation	47	
Teaching	434	295+
Biopsy	128	739
Biopsy device	128	751+
Biosynthesis	435	
Biotin	548	303
In drug	514	387
Biphenyl (See Aromatic Hydrocarbon)		
Biphosphates, Inorganic	423	
Bird		
Antiroosting structure	52	101
Artificial	428	16
Feather	428	6
Baths	119	1
Design	D30	123
Cage	119	17+
Design	D30	114+
Perches	119	26
Perches, design	D30	119+
Calls	446	204+
Feeders or waterers	D30	121+
Food	D 1	
Houses	119	23
Design	D30	110+
Perches or cage attachments	D30	119+
Repellents		
Electric fence	256	10
Electric prod	231	7
Scarecrows	40	
Training	119	
Traps	43	
Birefringent Element		
Color televison	358	61
Polarized light examination	356	365
Birth Control (See Contraceptives)		
Biscuit Package	206	830*
Biscuit Shredded	426	560
Apparatus	425	289+
Bismuth		
Alloys containing	420	577
Misc. chemical manufacture	156	DIG. 79
Organic compounds containing	556	64+
Pyrometallurgy	75	705
Bisnorcholenic Acids	552	553+
Bisphthalimides	548	461+
Bisulphates, Inorganic	423	520+
Bisulphides	423	511
Bisulphites	423	520
Reducing composition	252	188.21
Bit (See Cutter; Drill)		
Bench plane	30	493
Bit clamps	30	492
Earth boring	175	327+
Frame	408	53
Gauges	33	201
Harness bridle	54	7+
Design	D30	136
Weaning type	119	134
Ice boring	175	18
Ice cutting in situ	299	24+
Key bitting	70	409+
Mining cutter	299	79
Stock	81	28+
Wood boring double ended bit stock	408	36
Wood boring movable work machines	408	62+
Stationary bitstock	144	98
Wood boring stationary work machines	408	72R+
Inclined bitstock	144	100
Tobacco pipe	131	227+
Wood auger	408	199+
Bitts	114	218
Bituminous		
Abrasives containing	51	305
Compositions	106	273.1+
Emulsions	252	311.5
Mineral oil recovery from	208	400+
Polymers containing (See asphalt, polymers containing)		
Roads	404	17+
Bivalve Opener, Marine Animal	17	74+
Black Liquor	106	123.1
Blackboard	248	441.1+
Cabinet combined	312	230
Compasses	33	27.2+
Compositions	106	32.5
Design	D19	52+
Easels	248	441.1+
Erasers	15	208+
Writing surface	106	32.5
Blacking (See Coating)		
Box	15	258
Applicator combined	401	118+
Holder	15	259
Stand	15	265+
Blackjack	273	84R
Carrier	224	914*
Bladder Instrument	606	170
Blade (See Associated Machine)		
Electric switch	200	271+
Hand manipulated cutlery	30	
Holder for blades	30	329+
Making	76	104.1+
Saws	76	25.1+
Metalworking cutter	407	
Propeller	416	
Adjustable	416	147+
Stoneworking saw		
Reciprocating	125	18
Rotary	125	15
Blanching		
Fruits and vegetables	426	506+
Grain apparatus	99	600+
Grain process	426	506+
Nuts	99	623+
Blankets		
Animal	D30	145
Bed	5	482+
Electrically heated	219	212
Horse	54	79
Design	D30	145
Household linen	D 6	603
Nuclear fertile material	376	172
Printers	428	909*
Retaining devices	24	72.5
Blanking		
Cathode ray tube circuit	315	384
Metal workpiece for deformation	72	324+
Blanks (See Stock)	428	542.8
Cartridges	102	530+
Cigar	131	364
Horseshoe	59	62+
Metal	428	577+
Double blanks	29	DIG. 2
Holder for during deformation	72	293+
Metallic receptacle	220	62
Nut	411	427
Paper envelope	229	75
Design	D19	3+
Phonograph record	428	64+
Printed	283	
Processes and		
Chain	59	35.1
Garment collar	2	143
Printing members	101	401.1
Sprocket chain	59	8
Staple	59	77
Tools and implements	76	101.1+
Weldless chain	59	12
Shelf bracket of single blank sheet material	248	248
Shoe sole prepared for attachment	36	22R
With upper structure	36	12+
Shoe upper	36	47+
Spike	10	62
Blast		
Abrading by sand	51	410+
Boiler cleaning by sand	122	395
Cleaning	15	300.1+
Beater and or brush combined	15	363+
Suction combined	15	345+
Decorticating fibrous material	19	9
Filter cleaning	210	407+
Fluid flow dispensing	222	630+
Forges	110	195
Furnace (See shaft, furnace)	266	197+
Furnace reduction of iron compounds	75	458+
Gas agitation	222	195
Insect powder dusters	43	132.1+
Metal treating	266	
Pipes for locomotives	60	685+
Jet pump type	417	155+
Pneumatic conveyors	406	
Track sanders	291	3+
Blasting	102	301+
Caps	102	275.12
Cartridges	102	314+
Well	102	301+
Bleuges	48	211
Bleachers	52	8+
Design	361	2+
Bleaching	8	101+
Apparatus textiles	68	
Compositions		
Cake, tablet or powder form	8	524+
Detergents combined	252	94+
Oxidative	252	186.1+
Reductive	252	188.1+
Dyeing and	8	931*
Electrolytic	204	133
Foods and beverages	426	253+
Apparatus	99	467+
Flour	426	253+
Paper stock	162	1+
Photographic	430	430+
Resin bleach	8	DIG 6
Silicones	8	DIG. 1
Sugar	127	64
Textile bleaching	8	101+
Tobacco	131	290
Electrical or radiant energy	131	299
Vinyl sulfones & precursors thereof	8	DIG. 2
Waste paper	162	4+

	Class	Subclass
Bleeder Resistor	338	
Blenders		
Household mixer-blenders	D 7	378
Blending		
Dispensing combined	222	145
Mineral oil	208	
Mixing	366	
Tobacco leaf	131	327
Cigar making combined	131	39
Feeding combined	131	108+
Blends of Polymers (See Synthetic Resin or Natural Rubber)		
Cellular	521	134+
Blind Landing Systems		
Aircraft control	244	75R+
Geometrical instrument	33	227
Light	362	145
Flashing beacon	340	947+
Radio	343	
Beacon	342	385+
Beacon fixed course or bearing	342	407+
Localizer	342	413
Direction finding receiver	342	417+
Glide slope	342	410+
Blind or Blinders (See Shutters, Blind or Sightless)		
Adjusters	160	176.1
Animal worn	119	104
Design	D30	144+
Harness bridle attached	54	10+
Cord latch for venetian blind	D 8	394
Eye shield type	2	15
Design	D29	18
Fasteners	292	
Flying (See flying)		
Hunter concealing	43	1
Radar	342	24+
Using light ray	340	555+
Using sound or supersonic	367	87+
Rollers	160	284
Slat holders	292	345
Stitch sewing	112	267.1+
Machines	112	176+
Work guide for	112	140
Tilter unit for venetian blind	D 8	358
Window	160	
Blind or Sightless, Aids for		
Braille typewriter	400	122+
Canes	135	65+
Converting information to sound	434	116
Photocell scanners for reading machines	250	555
Radar type	342	24+
Tactile	434	113+
TV including aid for blind	358	94
Using sound	367	87+
Writing guides	434	117
Blister Package	206	461+
Block		
Butcher	269	289R+
Construction (See blocks; toy; panel)	52	
Break away section	52	98+
Column attached	52	474+
Glass	52	306+
Keys on angled surfaces	52	589+
Keys on single surface	52	593
Layered masonry	52	612
Masonry	52	596+
Mortar bonded masonry	52	415+
Parallel course masonry	52	561+
Paving	404	34+
Reinforced block	52	600+
Settable material on masonry	52	444
Static molds	249	144+
Through passage	52	606+
Tied	52	282
With drain	269	13
With passage	52	606+
Electrical connector		
Ceiling	439	450
Ceiling quick detachable	439	450
For floor, wall, roof	D25	138+
Fuse receptacle	439	830+
Hat forming	223	24+
Design	D15	135+
Keel and bilge	405	7
Log deck	83	708
Log turners combined	83	710+
Molding	425	
Holder	206	39
Planes	30	478+
Pulley	254	401+
Block and tackle, design	D 8	360
Railway rail seats		
Spiking blocks	238	286
Wood cushion blocks	238	285
Sanding	51	204+
Flexible	51	358+
Sectional pipe	138	100+
Tackle pulley	254	401+
Toy and educational		
Building	446	85+
Design	D21	108
Educational display	434	403
Teaching arithmetic	434	208
Teaching music	84	476
Teaching spelling	434	167+
Block Copolymer (See Synthetic Resin or Natural Rubber)		
Blocking Layer (See Barrier Layer)		
Blood		
Albumin from	530	363
Analysis		
Apparatus	422	44
Chemical processes	436	66+
Equipment design	D24	21
Breast scanning electronically	128	915
Centrifuge for	494	16+
Computer controlled, monitored	364	413.7+
Counter	377	10
Fertilizers containing	71	17
Filtration equipment	D24	21
Flow	128	691
Ultrasonic studies	128	661.8
Foods containing	426	647
Gas analysis	436	68*
Hemoglobinometer	356	40+
Occult blood	436	66*
Oxygenating	422	45+
Oxygenators	261	DIG. 28
Plasma	424	530
Pressure	128	672
Light radiation tests	128	667
Measurer	D24	21+
Recorder	128	900*
Ultrasonic radiation tests	128	660.2
Stock feed	426	635
Storage bags	604	403
Transfusion	604	7
Treatment	604	4
Blood Coagulation Factors	530	381+
Blood Proteins	530	380+
Blood Vessel, Duct, or Teat Scraper	606	159
Blotter	34	95+
Design	D19	98
Rulers combined	34	89.2
Blouses	2	106+
Design blouses and shirts	D 2	208+
Combined with skirt	D 2	112+
Evening, combined with skirt	D 2	74
Shirts	2	113+
Blow Film	264	555+
Blow Molding	425	522+
Process	264	500+
Of parison	264	523+
Blower	D23	383
Conveyer type	406	96+
Furnace solid fuel feeder	110	104R+
Gas pumps and fans	415	
Open fireplace	126	521+
Snow	37	244
Testing	73	168
Wind supply for organs	84	355
Blowing Glass	65	
Blowing-agent for Synthetic Resin or Natural Rubber	521	50+
Blowout		
Magnets	335	210+
Arc in switch	200	147R
Arc lamp having	314	20
Electronic tube system having	315	344+
Space discharge device having	313	153+
Preventers		
Actuators for	251	1.1+
Burners	239	553+
Cigarette lighter	431	310
Gate valves	251	1.1+
Well casing heads	166	75.1+
Well coupled rod type	277	5+
Well valve type	251	1.1+
Blowpipe		
Cutting heads	266	904*
Earth boring	175	14
Making	29	890.2
Notch & transverse cutting	266	902*
Structure	239	398+
With guide means	266	58+
Blowtorches	355	78+
Combined fuel tank	431	344
Heated	431	203+
Flame deflected by air	431	252
Heated feed	431	218+
Blueprint		
Lamps electric (See type of lamp)		
Paper, sensitive composition	430	540
Printing machine	355	78+
Processes photographic	430	368+
Bluing		
Compositions	8	648
Packages	206	.5
Boa		
Sewing machine for making	112	121.17
Board		
Base	52	241
Cake	269	289R+
Clapboard	52	518+
Clapboard positioning gages	33	646+
Composite or veneer boards	428	106+
Croquet boards	273	57
Finger board on musical instrument	84	314R
Game boards	273	236+
Design	D21	14+
Teaching	434	128
Ironing board	38	103+
Convertible to ladder	182	28+
Design	D32	66
Mere support surface	108	
Lee boards	114	126
Molding		
Article holding	52	27
Corner	52	288
Panel edging	428	21+
Trim	52	716
With filler strip	52	312
Music educational boards or charts	84	471R+
Pastry and cutting boards		
Cutting blocks and boards	269	289R+
Pastry boards	269	302.1
Plaiting boards for apparel	223	33
Plaster board	52	443+
Reed boards for organs	84	360+
Side boards pivoted for convertible wagon boxes	296	14
Sideboard with refrigerator	62	258
Sink drainboards	4	637
Sounding board		
Frame & string plates combined	84	184
String plates combined	84	187
Structure of	84	192+
Springboard	272	66
Switchboard		
Power type	361	332+
Telephone multiple at exchange	379	310+
Telephone multiple section type	379	313+
Telephone type details	379	319+
Textile weaving thread boards	57	358+
Top and side board fasteners	296	36
Top board details	296	32+
Top boards pivoted for convertible wagon boxes	296	13
Washboards	68	223+
Clothes supporting and spotting boards	68	240
Design	D32	67
Support for washboard	248	27.5
Boat (See Ship)	114	
Airborne	244	
Capstans	254	266+
Chock	D 8	356+
Cleats	114	218
Design	D 8	382+
Cranes	212	190+
Design	D12	300+
Heating	432	262+
Land vehicle for carrying	280	414.1+
Launching	114	344
Life boats	114	348+
Liferafts	441	35+
Lowering apparatus	114	365+
Propulsion	440	
Rope fastening hardware	D 8	356
Ships	114	
Design	D12	300+

	Class	Subclass
Small	114	
Storing mother ships	114	258+
Tillers (See stearing, marine)		
Toy	446	160+
Design	D21	130
Bobbers Fishing	43	43.11
Bobbin	242	118+
Bobbin winding on sewing machine	112	279
Braiding and bobbinet machines	87	55+
Changing		
In loom	139	241+
In spinning or twisting frame	57	266+
Packages	242	159+
Packing in receptacles	53	235+
Sewing machine	242	118.4+
Design	D15	78
Stripping and handling	28	292+
Replenishing in sewing machine	112	186
Shuttle clearing combined	139	262
Supporters and holders	242	130+
Textile twisting	57	129+
Winding	242	18R+
Bobbinet		
Lace	87	4
Machines	87	27
Bobby Pins (See Hairpin)	132	280+
Design	D28	39+
Bobeche	D26	142+
Bobs, Plumb	33	392+
Bod, Biochemical Oxygen Demand Tests	436	62*
Bodine Vibrator	366	600*
Bodkin	223	103
Body		
Artificial body members	623	
Attached antenna	343	718
Attached article carriers	224	148+
Bio-affecting compositions & drugs	424	
Braces orthopedic	128	78
Carrier, hand	294	140
Catcher	182	137+
Chute combined	182	48+
Ladder combined	182	101+
Cooler	62	
Bandaging combined	128	82.1
Display	62	246+
Heat exchange structure	165	46
Ice bag type	62	530
Kinesiatric	128	24.1
Medicator	604	113+
Open surface support	62	458
Orthopedic	128	68.1
Surgical instrument combined	606	2+
Therapeutic	128	362+
Cremators	110	194
Fluid collection	604	317+
Garment	2	
Footwear	36	
Footwear design	D 2	264
Life preservers	441	88+
Life preserving design	D21	238
Therapeutic	128	379+
Harness (See notes to def of)	119	96+
Heaters or warmers	604	113+
Apparel	219	211
Boots and shoes	36	2.6
Chemically reactive material for		
Irreversible reaction	44	250+
Readily reversible reaction	252	70
Electric	219	527
Heat exchanger	165	46
Receptacle for thermal material	220	3.1
Stoves	126	204+
Therapeutic	128	362+
Treating material	604	291+
Land vehicles	296	
Leveling device vehicle	280	840+
Life preservers	441	80+
Massagers	128	248+
Orthopedics	128	78
Protectors	2	2+
Trap		
Bank protection	109	3+
Burglar	43	59
Vehicle fender combined	293	15+
Body Treating Compositions (see Drug, Bio-affecting and Body Treating Compositions)	514	
Treatment and care	128	604
Artificial body members	623	
Dentistry	433	
Methods	604	49+
Surgery	128	
Toilet, ie, grooming articles	132	
Undertaking	27	
Valve	251	366+
Vehicle (See type of vehicle)		
Bogie	105	182.1+
Boiler	122	
Carried by land vehicle	280	830+
With leveling device	280	7
Cleaning	122	379+
Air blast	15	406+
Combined cooking stove	126	5
Water back on fluid fuel cooking stove	126	53+
Electric	392	441+
Electrolytic type	392	325+
Feeding fuel and water	122	446+
Feeding water	122	451R+
Purification	210	311+
Food apparatus	99	403+
Fuel magazine	122	30
Furnace structure for		
Water tube attached baffles	110	322+
Heating radiator combined with	237	16+
With automatic control	237	7
Hot water	126	361
Liquid level sight glasses	73	328+
Guard combined	73	326
Locomotive	105	43+
Articulated	105	40
Making processes	29	890.51
Nuclear reactor type	376	370
Open type	126	344+
Safety devices	122	504+
Scale preventing compositions	252	175+
Supports	122	510
Vehicle with steam heating boiler	237	41+
Vehicle with water heating boiler	237	35+
Wash boiler attachements	68	237+
Water gages	73	328+
Boiling Point Determining	374	16+
Boiling Water Reactor Nuclear	376	370
Bologna	426	646
Packaging	426	392+
Bolometer	374	32
Bolster		
Bearing	384	239
Bed pillow	5	434+
Railway truck	105	226+
Spring	267	6+
Vehicle	280	143+
Bolt	411	378+
Closure fastener	292	2+
Guard	292	346
Safe	109	59R+
Design	D 8	387+
Eye	D 8	367+
Fabric rolls	206	389+
Holder	81	13
Lock	70	229
Locked to nut	411	190+
Bolt compresses inward	411	305+
Bolt includes axial opening		
In free end for expander	411	271
In free end for expander	411	325
Recess in outer surface	411	217
Locked to substructure	411	81+
Stud bolt	411	107
Making	10	11R+
Rearward sliding breech	42	69.2+
Sliding lock	D 8	339+
Toggle	411	340+
Wrenches	81	52+
For bolts having cavity	81	436
Bomb	102	
Aerial sighting	33	229+
Drop	102	382+
Automatic flight control	102	384
Dropping	89	1.51+
Racks	89	1.59
Shelter	109	15
Underground building	52	169.6+
Sights	33	229
Calculators for	235	400
Optical	356	29
Snuffer	169	
Bonded Layers	428	
Bonded Masonry	52	415
By pressure per se	100	
Bonding and Bonds (See Grounds Electric, Welding)		
Autogenous laminating	156	308.2+
Battery bonding apparatus	228	58*
Battery bonding process	228	901*
Dental	433	226+
Glass working by	65	36+
Apparatus	65	152+
Laminating by	156	
Heat shield	228	59*
Metal to non-metal	228	903*
Preform with fluent hardenable material		
Static mold	249	83+
Rail	238	14.1+
Juxtapose & bonding	228	101+
Making, general	228	4.1+
Thermite molding	164	54
Shaping metal concurrently	228	265
Tube end closing	228	60*
Using flame	228	902*
Wire bonding	228	904*
Bone		
Adsorbents from	502	416+
Artifical	623	16
Compression or distraction	606	105
Conduction earphone	381	151
Conduction hearing aid		
Electric	381	68.3
Through teeth	181	127
Cutting device	606	79
Drill or pin guide	606	96+
Dyeing	8	523
External fixation devices	606	54
Fasteners	606	72+
Femoral screw	606	65+
Fertilizers	71	19+
Glue	106	125+
Growth stimulators	128	419F
Internal fixation devices	606	60
Removal apparatus	17	56+
Process	17	46
Repair devices	606	86+
Saws	606	82
Trephine	606	172+
Screws	606	53+
Splints	128	87R
Vises & fracture apparatus	128	83+
Bonnets		
Apparel	2	204
Design	D 2	515
Horse	54	80
Book	281	15.1+
Accounting books	283	63.1
Animated	446	147+
Books, strips, & leaves	281	
Cabinet	312	
Sectional unit type	312	107+
Showcase type rack inclosing	312	128+
With support for books	312	233
Carriers	294	149+
Case		
Design	D 6	396+
Casing in	412	5
Cover	206	450
Design	D19	26
Handle, combined	294	138
Making	412	3
Design	D19	26+
Disinfecting & preserving	422	243+
Holders	248	441.1+
Cabinet combined	312	233
For book or leaf	281	45+
Furniture design	D 6	419
Telephone type	248	441.1+
With illumination	362	98
Index cutting	83	904*
Looseleaf or ring bound	D19	27
Magazine cover removal	83	933*
Making machine	412	9
Leave or signature folding or associating	270	
Sewing	112	21+
Stapling	227	
Manifolding	282	22R+
Books and leaves	282	8R+
Marks	116	234+
Book holder combined	281	42
Design	D19	34
Match	206	104+
Filling and closing	53	394
Methods	53	395
Picture leaf	352	99
Printed matter	283	63.1+

	Class	Subclass
Accounting and listing	283	66.1+
Calendar	283	4
Indexed	283	42+
Transportation	283	33
Rack	211	42+
Shelf	108	59+
Stands	248	441.1+
Stereoscope combined	350	133+
Straps	294	149+
Strips & leaves	281	
Trimmers	83	934*
Typewriting machines	400	24+
Bookend	D19	34.1
Booking Tobacco Leaves		
Cutting combined	83	510+
Smoothing combined	131	326
Stemming combined	131	316+
Boomerang	273	426
Projecting holder	124	44
Booms	52	
Crane	212	266
Floating	441	47+
Power sprayer	239	159+
Booster		
Booter fluid in conveyor	406	93
Brakes with power assist	303	113
For tilting dump vehicle	298	19B
Boot (See Shoes)	36	
Anti-slipping devices	36	59R+
Design	D 2	271+
Design, protective	D30	146+
Blowout	152	367
Cleaner and cleaning	15	
Demonstration devices	434	397
Foot elevators	36	81
Footwear	36	
Hook	D 2	643
Horse	54	82
Design	D30	146+
Jack	223	114+
Design	D 2	642
Laces	24	712+
Design	D 2	316
Making	12	
Forms	12	128R+
Heel machines	12	42R+
Jigging	12	DIG. 3
Lasting machines	12	7+
Dash pots	12	DIG. 2
Fluid activated	12	DIG. 1
Processes	12	142R+
Sole machines	12	17R+
Toe and heel s.:.fening	12	61R+
Tools	12	103+
Upper machines	12	51+
Welt and rand machines	12	67R+
Mold	425	119
Mold	425	393
Polish	106	3+
Protectors	36	72R+
Putting on or removing	223	113+
Design	D 2	641+
Quarter boots	D30	146+
Rack	211	34+
Retaining	36	58.5+
Riding	36	131
Shoe covering	D 2	271
Ski	36	117
Sole gauges	33	3R
Tree holders	12	123.5
Treeing machines	12	53.2
Vehicle body	296	76
Booth	52	261+
Article supporting	52	27+
Collapsible	52	64+
Design	D25	16
Guard	109	9
Illuminated	52	28
Ordnance shield type	89	36.14
Spray coating	118	300+
Booth per se	98	
Spray washing	134	
Bootstrap Amplifier	330	156
Boranes	423	294
Explosive compositions	149	22
Organo boranes	568	1+
Borate Esters	558	286+
Borax	423	277+
Recovery	423	179
Borders		
Coating	427	284
Coping for vertical structures	52	300
Earth supported	52	102
Garden	47	33
Printing elements for	101	400
Borehole Exploration		
Compressional wave type	367	86
Core permeability testing	73	38
Earth boring combined	175	40+
Inclinometer	33	304+
Ore detection electric	568	1+
Physical condition	73	151+
Seismic acoustical	181	
Sounding	33	713+
Test electric	324	323+
Borescope		
Optical (incl. photoelectric)	356	241
Boring (See Auger; Bit)		
Bar	408	199+
Drilling and	408	
Earth	175	
Earth boring compositions	252	8.51
Embroidering machine	112	89
Pattern controlled	112	85
Head	408	199+
Lathe drill holders	408	238+
Metal cutters rotary	407	103+
Wood	408	
Augers	408	199+
Borneol	568	820
Boron and Compounds		
Acid and acid anhydride	423	277
Binary compounds	423	276+
Borates	423	
Carbide	423	291
Carbocyclic or acyclic compounds	568	1+
Detergents containing	252	89.1+
Elemental	423	298
Esters containing	423	277
Explosive or thermic composition containing	149	22
Fuels containing	44	314+
Misc. chemical manufacture	156	DIG. 86
Nuclear fuel containing	252	636+
Bosom Shirt	2	118+
Machine	223	2+
Botany	47	
Bottle (See Carboy; Receptacles)	215	
Advertising indicia	40	310+
Design	D20	37
Atomizer	D28	91.1
Attachments	215	100R
Baby bottle warmer	D 7	326
Bail stopper bottle filling apparatus	53	265
Breakers	241	99
Brushes internal	15	164+
Cap seal	425	809*
Capping	53	287+
Caps	215	316+
Case or holder	206	139
Design	D 9	455
Cleaning	15	
Filling combined	141	85+
Liquid contact	134	
Processes	134	
Closures	215	200+
Cap type	215	316+
Childproof	215	201+
Content indicating	215	365+
Cooled receptacle for	62	457.4
Liquid contacting bottle	62	373+
Cooler of inverted bottle type	165	132
Design	D 9	
Dispensers	221	92+
Dispensing from	222	
Dynamic dispensing means	D 9	300
Filling	141	
Inspection optical	356	240
With rotation	356	428
Making		
Glass	65	
Molding and label applying	425	500+
Plastic	425	522+
Nursing	215	11.1+
Design	D24	47
Nipple appliers	29	235.5
Openers		
Cap combined	215	228
Design	D 8	33+
Hand manipulated types	81	3.7+
Mounts or supports	81	3.25+
Non manual operation	81	3.2
Other tools combined	7	151+
Plural or combined	81	3.9+
Stopper combined	215	228
Stopper removal facilitated	215	295+
Pressurized	D 9	300
Pull stopper bottle filling apparatus	53	264
Rack supports for	211	74+
Shape	215	1R
Nesting	215	10
Siphon bottle filling apparatus	141	14+
Stand, rack or tray for	D 7	616
Sterilizer	219	429+
Stoppers or plugs	215	355+
Supports for nursing	248	102+
Tap		
Cutter and or punch	222	80+
Thermos T M	215	12.1+
Warmer	126	261+
Chemical reaction	126	263
Electric	219	429+
Wipers internal	15	211+
Wrapper for	229	89+
Bougie Surgical	606	191+
Medicator, soluble	604	288
Methods of introducing	604	54+
Bouillon Cube	426	589
Meat containing	426	641+
Bouquet		
Imitation	428	17+
Supports	248	27.8
For personal wear	24	5+
For personal wear design	D 2	624+
With holder	428	23
Bourdon Tube		
Gauge fluid pressure	73	732+
Making	29	890.14
Switch electric	200	81.8
Thermometer	374	203
Boutonniere	D11	117+
Bow	124	23.1
Apparel trim	2	244+
Making	223	46
Arrow projector	124	23.1+
Design	D22	107
Carrier for bow or arrow	224	916*
Compound	124	23.1
Pulley	124	900
Decorative	428	4+
Dental bite impression device	433	44
Design	D22	107
Compound	124	25.6
Design	D22	107
Garment support combined	2	300
Hair ribbon fastener	132	275
Land vehicle top	296	98
Necktie	2	144+
Design	D 2	606
Ox	54	77
Piano	84	256+
Ribbon	132	275
Saws	30	507+
Sight	33	265
String on bridge truss	14	9+
Thrusters, ship	114	151
Violin	84	282
Guides	84	283
Bow Tie	D 2	606
Bowden Wire (See Shaft, Flexible)	74	500.5+
Link and lever system combined	74	500.5+
Mechanical movement combined	74	82
Bowking	8	139
Bowl (See Basin; Pot; Receptacles)		
Arenas	272	3+
Basins	4	619+
Compartmented	D 7	555
Dry closet	4	420+
Fish	D30	101+
Household article	D 7	500+
Kitchen	220	
Lamp	362	154+
Reflector	362	341+
Lavatory	4	650+
Nut bowl	D 7	500+
Railway amusement ride	104	68
Roundabouts	272	46+
Separator, imperforate bowl centrifugal	494	43+
Shaving	220	
Smoking pipe	131	226
Cleaners	131	246
Detachable from neck cup	131	222

	Class	Subclass
Detachable from neck cup smoke treating type	131	214
Feeder	131	180
Lined or coated	131	220
Lined or coated material traps	131	204
Reversible	131	221
Spaced inner bowl	131	196
Storage means	131	180
Toilet		
Closures	4	253
Couplings and supports	4	252R*
Covers	4	234*
Disinfection	4	222*
Drip catchers	4	252A
Obstruction removers	4	257
Ventilation	4	216
Water closet		
Bowl	4	420*
Design	D23	295*
Plunger	4	420*
Seat combined	4	234*
Side receptacle	4	341*
Siphon	4	421*
Tank combined	4	300*
Urinal	4	311*
Valved	4	434*
Washout	4	420*
Bowling	273	37*
Ball	273	63R*
Case	D 3	36
Grip test	33	510
Bowling alley equipment	D21	233
Bowling game tables	D21	233
Games	273	37*
Pins	273	82R
Digest	76	DIG. 1
Shoes	36	130
Teaching	434	249
Box (See Bin; Chest; Crate; Receptacle; Safe)		
Annealing	266	262*
Axle process of manufacture of Railway car irons	29	168*
Ballot	232	2*
Registering	235	57
Beam	52	731
Blacking box (See blacking box)	15	258
Closure		
Paper	229	124*
Paperboard box	229	124*
Wooden	217	56*
Cooled commodity containing	62	371*
Core	164	228
Couch	297	192*
Covering	493	111*
Deposit and collection	232	
Design	D 9	414*
Egg candling	356	64*
Electric battery	429	96*
Fare	232	7*
File	206	425*
Fire (See firebox)		
Flower attachable to window	47	68*
For transport, goods handling	D34	40*
Hat	206	8*
Housings for electrical conductors	174	50*
Vacuum or fluid containing	174	17LF*
Ice	62	459*
Air controller combined	62	420*
Joint clamp	269	111*
Land vehicle axle	301	109*
Letter boxes	232	22
Lubricating railway car journal	384	160*
Making machine		
Assembling and nailing	227	19*
Grooving handhold	144	136D
Nail driving	227	
Paper box	493	52
Sheet metal bending	72	394*
Sheet metal stamping	72	343*
Staple forming and setting	227	82*
Staple setting	227	
Metallic	220	
Outlet or junction type	220	3.2*
Sheet metal container making methods	413	1*
Meter	73	201
Circuit protectors	361	364*
Miter	83	746*
Money	446	8*
Opener		
Cutting	30	2
Prying	254	18*
Paperboard	229	100*
Collapsible	229	117.1*
Joints	229	198.1*
With handle	229	117.9*
Pipe and box joints	285	128*
Presses		
Expressing	100	127
Movable bale	100	221*
Railway axle box mounting	105	218.1*
Registering	235	100
Ballot	235	57
Rheostat plug	338	77
Savings	229	8.5
Sewing	223	107
Special articles and packages	206	
Splints	128	93
Extension appliances	128	86
Switch	200	293*
Ties	229	125.22
Toilet kits	132	286*
Powder	132	293*
Toy money	446	8*
Design	D99	34*
Traps for animals	43	60*
Wooden	217	5*
Egg cells	217	18*
Ice	217	130
Insulated	217	128*
Boxing Gloves	2	18
Brace (See Suspenders)		
Body		
Bandages	128	155*
Combined with corset	450	96
Fracture apparatus	128	83*
Orthopedic	128	68*
Shoe attached skates	280	11.36
Shoulder and back	2	44*
Trusses	128	95.1*
Walking irons	128	83.5
Boilers	122	493
Closure fasteners	292	338*
Design		
Dispenser spouts	222	573
Handle combined	222	475
Door	254	39
Drill	81	28*
Freight on carrier	410	121*
Bar wall-to-wall	410	143*
Panel wall-to-wall	410	129*
Yieldable	410	117*
Making	29	897*
Orthodontic	433	2*
Instruments	433	3*
Pole or wall	52	146*
Wing type	52	153*
Rail		
Tie plates	238	292*
Track fastenings	238	336*
Supports	248	351*
Clothesline	248	353
Vehicle spring	267	66*
Bracelet	63	3*
Design	D11	3*
Identification	40	625*
Bracket	248	200*
Antenna on	343	892
Article carried for storage support	248	682
Article support	248	200*
Specially mounted or attached	248	205.1*
Bicycle carrier	224	39*
Book or music holder support	248	441.1*
Clamped to support	248	225.31*
Dental engine	433	103*
Design	D 8	354*
Dispenser casing	222	180*
Eaves trough to wall	248	48.2
Guides for sliding panels and doors	16	90
Ladder rung	182	220
Light supports	362	432
Design	D26	138*
Machinery supports	248	674*
Making and assembly	29	897*
Mine car axle	295	42
Nursing bottle type	248	103*
Orthodontic	433	8*
Pipe or cable	248	65*
Ray generation machine support	250	522.1
Receptacle support	248	311.2
Rotary shaft to wall	384	442*
Staff	248	534*
Stand alternative	248	126
Machinery supports	248	676
Stand combined	248	121*
Static mold form	249	219.1
Stove shelf	126	333
Thermometer supports	374	208
Track combined for sliding panels and doors	16	94R*
Vehicle attached	224	42.45 R*
Watch and clock	248	115
Whip socket	280	175
Brad	411	439*
Braiding	87	
Guide for sewing	112	139
Packages	206	389*
Sewing machine	112	23
Shaft packing material	277	227*
Tire carcass material	152	548
Trimming design	D 5	7*
Braille	434	113*
Typewriter	400	122*
Brake (See Machine or Device Combined)	188	
Airplane	244	110A*
Skids	244	108
Back pedaling	192	5
Beam	188	219.1*
Fulcrum	188	231*
Guide	188	233.3
Beams and bars for vehicles	188	219.1*
Bending brake	72	457
Bicycle	188	24.11*
Caliper type	188	24.12
Coaster	192	6R
Disc type	188	26
Block	188	250R*
Centrifugal casting machine combined	164	294
Closure safety	49	322
Clutch combined	192	12R*
Cooling	301	6CS
Deformable impact absorber	188	371*
Device with fluid	92	8*
Closed loop system	188	297*
Combined with spring	267	
Fluid spring	267	64.11*
Mechanical spring	267	217*
Open loop system	92	8
Disc type	188	71.1*
Door checks	16	82*
Electric		
Electrodynamic torque type	310	92*
Locomotive	105	61
Motor braking	318	362*
Motor with brake	310	77
Electrodynamic	310	92*
Elevator	187	73*
Expansible chamber	92	15*
Flexible panel or closure		
Automatic control	160	8
Roll type	160	291*
Fluid		
Internal resistance	188	266*
Internal resistance mechanical combined	188	271
Systems	303	
Testing fluid pressure systems	73	39
Inertial vibration damper	188	378*
Internal resistance motion retarder	188	266*
Master cylinder	60	533*
Motor control combined	192	1.1*
Power stop mechanisms	192	116.5*
Reel type	242	99
Fishing reel	242	283*
Spinning reel	242	243*
Ship propeller shaft	440	74
Shoes	188	250R*
Composition ctg synthetic resin or natural rubber	523	149*
Spinning or twisting element	57	113
Strand tension	242	156
System control	291	15
Testing	73	121*
Fluid pressure systems	73	39
Track sander control combined	291	14
Transmission control combined	192	4R*
Vehicle fender combined	293	2*
Wheel lock of brake type	70	228
Wheeled skate	280	11.2
Bran	426	618*

	Class	Subclass
Comminution processes	241	6+
Removal from grain		
Apparatus	99	600+
Processes	426	482+
Separation	209	
Comminution combined	241	7
Brandboards	68	224
Branding		
Electrically heated stamp	219	228
Food cooking apparatus combined	99	430
Slice toaster or broiler type	99	388
Ink	106	20+
Instruments (See pyrographic)		
Iron		
Electric	219	228
External heat	101	31
Fuel burner	126	402+
Stamp	219	228
Brass		
Compositions	420	477
Knuckles	273	84R
Plating	204	44
Brasses		
Bearings with brasses	384	191+
Lubricating means	384	162+
Lubricating reservoir	384	163+
Musical instruments	84	387R+
Brassieres	450	1+
Combined with corset or girdle	450	7+
Design	D 2	24
Design combined with girdle	D 2	3
Brazing (See Soldering)		
Electric heating	219	85.1
Metal working with	29	DIG. 4
Methods	228	101+
Bread		
Box	D 7	609
Compositions and processes	99	
Cutters	83	761
Design	D 1	129+
Kneading board, household	D 7	698
Loaf design	D 1	129
Testing	73	169
Toaster	99	385+
Breaker		
Circuit (See circuit)		
Cornstalk harvester	56	52
Fiber preparation	19	35+
Ice breaker ships	114	40+
Metal	225	93+
Sheet, strip, rod, strand	225	93+
Solid disintegrator	241	
Stalk choppers	56	500+
Strips for tires	152	542
Wood chip	144	243+
Disintegrator	241	
Breaking Emulsion		
Agents	252	358
Mineral oil	252	328+
Combined processes	208	187+
Processes	252	319+
Breaking or Tearing	225	
Container opening	206	601+
Device	119	29
Harness	54	71+
Breaking Strength Testing Machines	73	788+
Breakwater	405	21+
Breast		
Artificial body member	623	7+
Board		
Plow moldboard	172	754+
Washboard	68	225
Drills	81	28+
Harness	54	20
Protectors	2	2
Pump	604	73+
Shields	128	890
Strap	54	58+
Design	D30	134+
Breasting Shoe Heels	12	47+
Nailing combined	12	43
Breath Alcohol	436	900*
Breath Testing	73	23.22
Breathers		
Caps	220	367+
Crank case	92	78+
Internal combustion engine	123	41.86
Plugs	220	367+
Roof		
Tanks	220	85R
Tank	220	367+
Valves, safety	137	455+
Breech	42	16+
Block	89	17+
Breeching	54	5
Holdbacks	278	128+
Breeder Reactor Nuclear	376	171
Briar Pipe	131	230
Brick (See Block; Panel)		
Carrier	294	62+
Checker	165	9.1+
Cleaning	125	26
Coking ovens	202	267.1
Composition	501	141+
Cutting after firing	125	23.1
Double course wall	52	561+
Veneer	52	434+
Drying apparatus		
Combined with kilns	432	128
Furnace, solid fuel	110	338+
Glazing	427	376.2
By tie	52	582+
On plural face	52	589+
Mold	425	398
Mold	425	412+
Static	249	117+
Molding machines	425	130+
Molding machines	425	218+
Pavements	404	34+
Presses	425	253+
Presses	425	363+
Presses	425	383+
Presses	425	413
Cutting while green	425	289
Cutting while green	83	
Road modules	404	34+
Sanding apparatus	118	308+
Through passage	52	606+
Brickkiln	432	120+
Bricklaying Machine	52	749
Brickmaking	425	
Brickset Cookstove	126	8
Brickwork		
Imitation		
Static mold	249	16
Brides Dress	D 2	50+
Bridge	14	
Arch	14	24+
Cable traction railways at swing bridges	104	188
Closure shiftable to bridge pit	49	33
Covering	14	74
Cranes horizontally swinging	212	205+
Horizontally	212	226
Deck	14	73
Dental	433	167+
Draw bridge	14	31+
Duplex bridge telegraph system	370	28
Electrical		
Amplifier (See amplifier, bridge)		
Bridge networks	323	365
Testing bridge	324	+
Distributive parameters	324	648
Eye glass bridges	351	124+
Fire hose bridges for spanning railroads	104	275+
Floating	14	27+
Floor bridges for vaults & safes	109	87
Gangways	14	69.5+
Girder	14	17
Glass furnace barrier	65	342+
Glass furnace in	65	342
Guitar bridges	84	298
Tailpiece combined	84	299
Irons, process of making	72	
Masonry or concrete	52	263
Arch	52	86+
Musical bridge details	84	307+
Piano bridges	84	209+
Piers	14	75+
Portable	14	2.4+
Railway bridge warnings or telltales	246	486
Railway safety bridges between cars	105	458+
Railway track tread bridges	238	218+
Steel or wood	14	
Stringed instruments (See music)	84	307+
Design	D17	21
Guitar	84	298
Guitar tailpiece	84	299
Piano	84	209
Structural		
Steel or wood	14	
Suspension	14	18+
Truss	14	3+
Wheatstone (See electrical)		
Bridgeman Type Crystallization	156	616.4
Bridle		
Bit		
Design	D30	136+
Brush and broom	15	168+
Harness	54	6R+
Design	D30	134+
Pipe or cable supporting bracket	248	69
Brief Case	190	900*
Design	D 3	76+
Molded integral handle	D 3	73
Zipper	D 3	71
Locks	70	67+
Bright Polishing by Etching	156	664+
X-art	156	903*
Brightening (See Burnishing; Polishing)		
Coatings	427	158
Electrolytic	204	36
Electrolytic	204	140
Radiation imaging, brightener ctg	430	933*
Brim		
Curler	223	14
Trimmer	223	16
Wirer	223	17
Brinell Testers	73	78+
Brines		
Purifying	210	
Briquette (See Block)		
Metal for furnace charging	75	303+
Solid fuel	44	530+
Briquetting	425	579
Distillation combined	201	5+
Fuel	44	593+
Nuclear	264	.5
Meat	17	32
Metal eg powder scrap		
Apparatus	425	78+
Apparatus	100	
Processes	419	61+
Processes sintering	419	
Ore	75	746+
Bristle	15	159R+
Brushware, design	D 4	130+
Dressing and assorting	300	18
Fastening in brooms and brushes	300	
Trimming	300	17
Broach or Broaching	409	243+
Bolt heads	10	20
Buttons	79	1
Cutters for	407	13+
Dental instruments for	433	102
Gear cutting machines	409	58+
Nuts	10	81
Broadcasting		
Container & scattering means for non-fluid material	239	650+
Insect powder dusters or sprayers	239	
Planting	111	130+
Planting with drilling	111	8+
Radiant energy systems eg radio	455	
Broadcloth	139	383R+
Wool	26	19+
Brocade	139	416
Broiler		
Attachments	126	14
Drip collecting	99	444+
Gas stove combined	126	41R
Griddles	99	422+
Grids	99	450
Slice	99	385+
Bromacil	544	313
Bromate	423	475
Bromides Inorganic	423	462+
Bromine	423	500+
Halocarbons	570	101+
Bromural	564	45
Bronchoscopes	128	4+
Bronze	420	470
Aluminum	420	471
Pigment	106	403
Brooch	D11	40+
Brooder	119	31+
Automatically controlled heater	236	6
Heater, design	D23	334
Heating system	237	14+
Automatic control	237	3+
Incubator combined	119	30

	Class	Subclass
Broom	15	159R+
Cabinet	312	206+
Cleaning material combined	401	268+
Design	D 4	135+
Non-bristle	D32	40+
Holder	15	146
Lawn or grass	56	400.17+
Making	300	
Machines	300	12+
Sewing machines	112	6
Rack	211	65+
Support	248	110+
Whisk broom	D 4	135
Brucine	546	35
Brush or Brushing (See Associated Process, Machine or Device)	15	
Attachments	15	246+
Bottle or jar closure supporting brush	215	208+
Container closure supporting brush	206	15.2
Drip cups and shields	15	248R+
For moving surface cleaning	15	256.5+
Bristle brush with scraper	D 4	118
Broom	D 4	135
Brushes and brooms	15	159R+
Cabinet	312	206+
Cleaner for	15	38
Cleaning implements	15	104R+
Making containers, X-art	493	942*
Cleaning machines	15	21.1+
Cleaning or coating	15	
Material supply combined	401	268+
Cleaning processes	134	6+
Clothes and textiles washing machine scrubber	68	
Design, bristled	D 4	130+
Clothes, hat, fingernail	D 4	
Dispenser clearing or striking	222	352
Dispensing, design	D 4	114+
Dustpan combined	15	104.8
Fly fan	416	501
For vacuum or floor polisher	D32	15+
Ginning saw picker	19	60
Hardware	16	2+
Implement	15	104R+
Light thermal and electrical application to body	128	393
Machine	15	3+
Air blast or suction combined	15	363+
Brush cleaner combined	15	48
Fruit, vegetable, meat or egg	15	3.1+
Receptacle cleaner	15	56+
Shoe	15	36+
Shoe blacking and shining	15	30+
Street cleaner	15	78+
Textile cloth finishing	26	29R+
Thread finishing	28	217+
Magnetoelectric	310	248+
Holder	310	239+
Making	300	
Individual wire bristle or tooth setting	227	79
Machines	300	2+
Massage	128	44+
Multiple-tip multiple-discharge	401	28
Non-bristle	D32	40+
Paint	15	159R+
Design	D 4	
Reservoir attached	401	268+
Pastery or basting	D 4	
Plural	D 4	119+
Powered	D 4	100
Rack	211	65+
Receptacle	206	361+
Roughening by wire brush	29	76.1
Scraper can attachment	220	90
Sifter cleaner combined	209	385+
Simulative	D 4	124+
Solid material assorting	209	615
Support	248	110+
Tobacco		
Feeding combined	131	109.1
Leaf	131	324+
Leaf stemming with smoothing or cleaning	131	315+
Toilet bowl	D 4	
Toilet kit	132	313
Material supply combined	401	118+
Shaving brush type including toilet article, eg mirror	132	289+
Soap and brush combined	401	123+
Tooth brush type including	132	308+
Tooth	15	167.1+
Tooth paste supply combined	401	268+
With massage tool	15	110
Washboard surface	68	227
Wick trimmers	431	120
Work supports	15	268
Shoe	15	36+
X-art collection	425	805*
Bubble		
Amusement devices	446	15+
Bubble domain coculating	364	714
Magnetic bubbles	365	1+
Solid separation processes	209	164+
Specific gravity test	73	439
Tower (See dephlegmators)		
Porous mass	261	94+
Wet baffle	261	108+
Bucket (See Pail, Tub)	220	
Conveyer (See type conveyer)		
Design	D32	53
Coal scuttle	D23	410
Minnow	D22	136
Excavating	37	
Clamshell	37	183R+
Orange peel	37	182
Fire extinguisher	169	34
Floccid material	220	904+
Heater for dinner bucket	126	266+
Hoist line	414	564+
Vertically swinging shovel	414	565
Vertically swinging support	414	680+
Minnow	43	56+
Paperboard	229	910+
Rotary kinetic fluid motor	415	
Sap	47	50+
Staved wooden	217	72+
Tank type meter with rotary bucket	73	217+
Turpentine and rubber collecting	47	11
Type conveyer	198	701+
Dispensing	222	369
Dispensing endless	222	371
Wind motor collapsible	416	142+
Wooden	217	
Bucking Bar	72	457
Buckle	24	163R+
Belt attached buckled, clasp, slide	D 2	627+
Design	D 2	3
Harness	D30	139
Design apparel	D11	200+
Making	29	3
Seat belt	D11	200+
Shoe	D11	200+
Turnbuckle	403	43+
Buckstay Construction	52	86+
Bucky Grid	378	154
Budding and Grafting	47	7
Buddles	209	458+
Buffers (See Springs)		
Amplifier	330	
Radio transmitter with	455	91+
Bedstead	5	309
Bridge	14	48
Loom picker and picker stick	139	167+
Manicuring	132	76.4+
Compound tool	132	75.6
Polishing wheels	51	358+
Railway		
Draft gear	213	220+
Dump car door	105	285
Freight car interior end	105	374
Locomotive buffer beams	105	173
Store service	186	24+
Tire combined	152	158
Track	104	249
Trunk and baggage	190	37
Typewriter	400	686+
Warship	114	13
Water closet combined	4	248
Bug Type Telegraph Key	178	79+
Bugle	84	387R
Buhrstone or Burrstone	241	296+
Mills	241	244+
Builder Mechanism for Bobbins and Cops	242	26.1+
Builders		
Detergents	252	89.1+
Elevators	182	141+
Traveling scaffold	182	12+
Hardware	16	
Design	D 8	
Buildings	52	
Amusement	272	2+
Animal barns and sheds	119	16
Apparatus for moving material to a position for erection or repair	414	10+
Assembly or disassembly	52	127.1+
Auditorium or stadium feature	52	6+
Bay window	52	201
Burial vault	52	128+
Lifting or handling	52	124.1+
Construction elements	D25	
Convertible	52	64+
Cupola	52	200+
Drip deflector	52	97
Foundation	52	292+
Heated and cooled	165	48.1
Ventilated	165	16
Jail type structure	52	106
Lifting or handling of primary component	52	122.1+
Position adjusting	52	126.1+
Molding in situ	264	31+
Multi-room or multi-level	52	234+
Non-rectangular	52	236.1+
Panel or facer	52	474+
Prefabricated	52	
Subenclosure	52	79.1+
Railroad car roof construction	52	45+
Refrigerated	62	259.1+
Shipbuilding	114	65R+
Static mold	249	13+
Stepped or stair	52	182+
Synthetic resin component	52	309.1+
Tents and canopies	135	
Toy	446	476+
Construction	446	108+
Design	D21	114
Ventilation	98	29+
With terranean relationship	52	169.1+
Work holder positions in installed location	269	904*
Bulb		
Discharge tube	220	2.1 R+
Electronic device envelope	220	2.1 R+
Making of glass	65	
Expansible chamber device	92	92
Fluorescent lamp	313	484+
Gas or vapor lamp	220	2.1 R+
Incandescent lamp	220	2.1 R+
Reflector	313	113+
Planters	111	909*
Radio tube	220	2.1 R+
Bulkhead		
Compartment and	114	78
Door and	114	116+
Bulldozer		
Blade	172	701.1+
With vehicle mount	172	811+
Cab	180	89.12
Design	D15	23+
Bullet	D22	116
Bullet (See Ammunition; Projectiles)	102	501+
Making	29	1.22+
Resistant		
Tanks	220	415+
Setting	86	43
Speed electrically measured	324	160
Timing electrically	324	178+
Timing recorder	346	38
Bulletin Board	D19	52+
Frame	D19	54
Bulletproof	428	911*
Apparel, guards and protectors	2	2.5
Plural layers	428	
Walls and panels	109	78+
Bulls Eye Liquid Level Gauge	73	331
Bumper		
Automobile	293	102+
Guards	293	142+
Design	D12	167+
Fluid	293	108
Horizontal bar	293	120+
Lights	362	82
Closure checks	16	82+
Railway car end	213	220+
Railway car stops	104	254+
Release of closure latch	49	364
Vehicle, design	D12	163+
Buna T M (See also Synthetic Resin or Natural Rubber)	526	339

	Class	Subclass
Bunching (See Bundling)	493	386
Vegetable end cutting combined	99	635
Bundle		
Fuel	44	541
Bundle Formers		
Hay	56	401+
Bundling	100	
Compacted trash	428	2
Compression	53	523+
Plug tobacco	131	112+
Raking and	56	341+
Wood splitting and	144	192
Bung		
Extractors	81	3.7+
Plug type closure for dispenser	222	544+
Wooden barrel	217	98+
Bunk		
Bed	5	9.1+
Log bunks for logging truck	105	160
Buns	426	556+
Bunsen Burner	431	354
Buoy	441	1+
Design	D10	107
Signal	116	107+
Submarine escape	114	323+
Submarine marker	114	326+
Buoyancy Motors	60	495+
Tide or wave	60	497+
Buoyant Devices		
Convertible, inflatable	441	125+
Life preservers	441	80+
Garment type	441	88+
Seats	441	126+
Bur		
Dental	433	165
Pipe reamer	408	227
Removers		
Horseshoe making	59	59
Textile fiber	19	84
Bureau	312	
Baggage convertible	190	3+
Plural		
Burette, Chemical Apparatus	422	100
Chemical analysis, apparatus	422	82.5
Graduated container	222	158
Measuring vessel	73	426+
Burgee	116	173+
Burglar		
Alarm		
Combined with other function	116	6+
Electric	340	541+
For vehicle	340	426+
Electric approach operated	340	541+
Electric switch for	200	
Indicator combined	116	5
Mechanical	116	75+
Trap	43	59
Burglarproof Structures	109	
Burial		
Body preparation	27	21.1+
Coffins	27	2+
Casing portable	27	35
Garment	2	64
Shoes	36	8.2
Vault	52	128+
Vault design	D99	1+
Burner (See Furnace; Heat)		
Bunsen	431	351
Cap	431	129+
Cap	431	144+
Carbon black apparatus	422	150+
Control	431	18+
Design	D26	114
Disinfecting material preparation	43	127+
Dispensers having	222	113
Extinguisher	431	129+
Extinguisher	431	144+
Automatic control	431	33+
Flame protector with	362	376
Flashback prevention	431	22
Flashback prevention	431	346
Fluid distributor for	239	
Fluid fuel	431	
Distributor for	239	
Stoves	126	
Insect destroying	43	144
Light distributor with	362	93
Lime light	431	347
Distributor for	239	
Making	29	890.2
Nozzle	239	
Operation process	431	2+
Pilot with	431	278+
Pot type	431	331+
Pyrotechnic single use	102	335+
Rotary	239	214+
Solid fuel	110	
Stoves	126	
Tobacco smoking devices	131	330+
Toilet closets having	4	111.4+
Torch	239	398+
Torch	141	345
Capillary mass	431	327
Welding	239	398+
Welding	228	
Wick	431	298+
Burning		
Electric heater for	219	227+
Insulation from wire	81	9.4
Lime, cement, etc. kilns	432	
Burning in	29	89.5
Burnishing (See Polishing)		
Electrolytic coating combined	204	36
Implement		
Mutilating eraser combined	7	124+
Shoe	12	104+
Machines	29	90.1+
Paper tube	493	467
Photograph	354	351+
Shoe	12	70+
Wearing in	29	89.5
Burr (See Bur)		
Bus (See Land Vehicles)		
Baggage rack ladders	182	127
Bar (See conductor, electric)	174	
Attachment means for switches	337	191
Distribution or control panels	361	355
Duct	174	50
Electrical housings for	361	341
Electronic service distribution	361	361
Printed circuit board	361	407
Design	D12	84
Destination signs	40	446+
Motor changed	40	470+
Bushing	16	2+
Abrading processes	51	290+
Applying and removing		
Couplings to conduits	29	237
Grommets	227	55+
Processes	29	428+
Pulling or pushing type	29	244+
Resilient bushings	29	235+
Tube and coextensive core	29	234
Bearing type	384	276+
Bung wooden barrel	217	113
Glass dispensing orifice	65	1+
Glass filament intrusion	65	325+
Insulating	174	152R+
Arcing or stress distributing	174	142+
Fluid or vacuum containing	174	31R
For antenna	174	151+
In line insulator	174	167
Railway wheel	295	35
Wooden barrel	285	130
Business		
Computer controlled, monitored	364	401+
Forms		
Carbon copy sets	282	28R
Carbonless copy sets	503	200+
Printed forms	283	
Teaching	434	107+
Bust Support (See Brassiere)	450	1+
Bustle	2	210
Design	D 2	699
Butadiene (See Diolefin Hydrocarbon)		
Liquid polymer	585	507+
Solid polymer (See synthetic resin or natural rubber)		
Synthesis of	585	601+
By cracking	585	615
Butchering	17	
Fowl	17	11+
Hog scalders	17	15
Hog scrapers	17	16+
Marine animals	17	53+
Meat tenderers	17	25+
Processes	17	45+
Sausage stuffers	17	35+
Supports & shackles	17	44+
Butter		
Apparatus	99	452+
Compositions	426	
Cutters	83	
Design	D 1	
Dish		
Cooled	62	457.6
Design, general	D 7	502
Design, refrigerating	D15	89
Fruit	426	616
Mold	249	
Cutter combined	425	289+
Packaging	426	392+
Peanut	426	633
Preservation	426	317
Processes manipulative	426	
Worker	99	452+
Butterfly		
Resonator	331	95
Tuner	334	67
Valve, fluid handling, unbalanced	137	484
Valve, rotary	251	305
Button	24	572+
Abrading cleaning shields	51	265
Apparel, design	D11	222+
Art collection	425	801*
Attaching		
Processes	2	265
Sewing machine	112	104+
Bell buttons mechanical	116	172
Design	D11	222+
Lapel	D11	95+
Eyelet and rivet setting	227	55+
Fabric	24	92
Fastener making	29	4
Fasteners	24	90R+
Feeder	227	31
Sewing machine	112	113
Fluorescent and phosphorescent	250	462.1
French cuff button	24	102FC
Hinged leaf	24	97+
Hole (See buttonhole)	24	659+
Cutters	30	118+
Marking guides	33	575+
Hook	D 2	643
Loop	24	660
Making	79	
Making, metal	29	4
Metallic	79	3+
Pearl & composition	79	6+
Setting machine	227	55
Shank buttons	79	2
Strap or cable button	24	114.5
Switch	200	329+
Telegraph key	178	110
Whip	231	6
Work supports	79	18
Buttoner	24	40
Design, shoe	D 2	643
Machine for shoes	12	58.3
Buttonhole	24	659+
Cutting	83	905*
Hand tool	30	118
Marker	33	575+
Sewing machines	112	65+
Processes and seams	112	264.1
Shoe closures	36	52
Stitch machine	112	157
Workholder in making	269	
Buttress, Vertical Wall	405	112
Butyl Alcohol	568	840
Fermentative preparation	435	160+
Preparation by olefine hydration	568	895+
Preparation from alkyl halides	568	891+
Preparation from alkyl sulfates	568	888
Butyn T M	560	49
Buzzers		
Electric	340	392+
Toys		
Noisemaking taps	446	213+
Sounding	446	397+
Spinning and whirling	446	236+
BX TM Cable	174	109
Fitting	174	50+
Staples	411	457+
Driving implement	227	140+
Insulated	174	159+
By Product Recovery (See Source Material or Material Recovered)		
Byte	370	83
Assembly and formatting	370	99

C

C-clamp	D 8	73
C-vinyl Aromatic Hydrocarbon Synthesis	585	435

	Class	Subclass
Cab		
Closure operators		
Door and window	49	72
Window	49	324+
Locomotive		
Dust guards	98	28
Ventilation	98	3
Window condensation preventers	98	91
Motor vehicle body	180	89.1+
Railway	105	456
Signal or train control	246	167R+
Block signal systems	246	20+
Drawbridge protection	246	119
Grade crossing track protection	246	117
Automatic	246	115
Switch stands	246	394
Train dispatching central signal	246	4
Train dispatching train order	246	6
Squirts	239	174
Cabin and Stateroom		
Pressurized	98	1.5
Aircraft structure combined	244	59
Heated and cooled	165	15
Ship	114	71
Furniture arrangement	114	189
Toy construction logs	446	106
Cabinet	312	
Bath tubs	4	538+
Bed combined	5	2.1
Card or sheet magazine	312	50
Card or sheet retainer	312	183+
Cooking stove	126	37R
Dark cabinet	354	307+
Dispensing (See dispensing)		
Escutcheons	70	452
File	312	183+
Instrument sterilizing	422	
Ironing table support	108	33+
Joint of sectional cabinets	312	111
Light combined	362	133
Light etc application to body	128	371+
Locks for	70	78+
Metallic receptacle spaced wall	220	445+
Music	84	DIG. 17
Office machines	D18	
Outside players for music instruments	84	108
Phonograph type	312	8
Console type	D14	175+
Record holders	312	9+
Photography fluid treating	354	297+
Radio type	312	7.1
Design	D14	188+
Receiver	455	347+
Transceiver	455	90
Transmitter	455	128
With antenna	343	702
Safes	109	
Combined	109	23+
Convertible	109	22
Incidentally movable	109	45+
Plural compartment	109	53+
Shields and protectors	109	49.5
Supports and mountings	109	50+
Wall and panel structure	109	58+
Show case	312	114+
Shower bath	4	596+
Design	D23	283
Sign exhibiting reel	40	515
Sound or video recording etc instrument	369	75.1+
Slot for disc insertion	369	77.1+
Structure	312	
Television	358	254
Toy	446	482
Type case accessory	276	44
Wall or ceiling mountable	312	242
Cable and Cable Making	57	
Advancing material of indeterminate length	226	
Block and tackle	254	389+
Bridge suspension	14	22
Burglar alarm cable controlled	116	94
Button		
Strap chain cable attachment	24	114.5
Supports pipe or cable	248	49+
Supports suspended	248	317+
Car (See traction below)		
Clamp		
Bridge suspension	14	22
Cord and rope	24	115R+
Pipe or cable	248	49+
Clip (See cable clamp)	104	200+
Coaxial	333	239+
Composite plastic cable molding	425	500+
Compound die expressed plastic	425	113+
Concentric conductors	174	102R+
Connector	403	
Container for	206	389+
Conveyor		
Hoist linear traversing	212	76+
Ship coaling type	212	72
Material or article handling	414	
Power driven	198	
Endless	198	804+
Endless single cable	198	643
Store service systems	186	14+
Cutting	30	
Fishing line	43	43.12
Ships anchor cable	114	221R
Well cable	166	54.5+
Well torpedo cable	89	1.14
Drum and cable mechanism	74	506
Antifriction	254	901*
Slip clutch	254	903*
Specific material	254	902*
Wave motion responsive actuator	254	900*
Electric	174	
Furnace, cooling of	174	15.7
Loaded	178	45+
Telegraphy	178	63R
Thermal responsive circuit breaker incorporated	337	415
Welding, cooling of	174	15.7
Electric conductor making and or joining	156	47+
Electrical assembly	29	755
Emergency elevator	187	71
Fairing	114	243
Gear drum and cable mechanism	74	505
Grip (See clamp above)		
Cable driving stops railway	104	239
Car control vehicle fender	293	3
Motor placement railway rolling stock	105	134
Guides (See guides, cable line)		
Hauling or strand placing	254	134.3 R+
Hoisting		
Apparatus for hauling or hoisting load	254	264
Crane overhead travelling cable driven	212	205+
Crane rotary drive	212	246
Elevator car brakes and catches	187	81+
Grapples pivoted jaws separate cable actuator	294	111
Hook tackle	294	82.11+
Inclined elevator brake	187	13+
Ladders extension	182	207+
Ladders track type	182	63+
Lever actuator pushing and pulling	254	127+
Linear traverse	212	76+
Material or article handling		
Combined carriers endless	414	564+
Elevator	414	592+
Traversing type	414	560+
Pushing and pulling implements or apparatus	254	264
Ship coaling type linear traverse	212	72
Testing physical	73	158
Trucks	254	4R
Vehicle body lifter	254	47+
Impregnating		
Apparatus	118	
Indefinite length electrical conductor	156	47+
Metal casting, continuous	164	462+
Joining wire	140	111+
Joints and couplings (See joints, pipes, shafts, rods, plates)		
Laying apparatus	405	154+
Protector from abrasion	174	136
Rail	104	112+
Railway	104	240
Switch cable and pully connection	246	332
Releaser	187	72
Remote control	74	500.5+
Stop		
Drum automatic control slack cable	254	272
Ship	114	199+
Traction railway	104	239
Submarine		
Loaded	178	45
Support for pipe or cable	248	49+
Bracket	248	65+
Suspended	248	58+
Table equalizers	108	87
Tension device	254	199+
Tension equalizer	187	1A
Tension reliever	114	215
Tightener belt	474	101+
Towing		
Land vehicle train	280	480
Marine propulsion	440	34+
Ship	114	242+
Traction		
Closure operator	49	347
Hauling apparatus	254	264+
Lever single throw	254	127+
Linear hoists	212	76+
Linear hoists ship coaling type	212	72
Overhead cranes	212	214+
Railway rails	104	112+
Railway rails combined with rigid	104	87
Railway rolling stock suspended	105	151
Railway traction	104	173.1+
Railway turntable actuator	104	39
Rotary cranes	212	246
Store service systems	186	14+
Tube or rod splicing	425	802*
Twisting wire	140	149
Underground conduits for pipes or cables	138	105
Winding & reeling	242	
Wireworking article making or forming	140	71R+
Cable Tool Rig	173	81+
Cacao	426	631+
Cachets	604	403+
Cacodyl Compounds	556	70+
Cadmium		
Alloys	420	525
Batteries	429	
Compounds	23	
Electrolytic coating with	204	50.1
Electrolytic synthesis	204	114+
Fluorescent or phosphorescent compositions containing	252	301.6 R
Misc. chemical manufacture	156	DIG. 92
Organic compound containing	556	118+
Pigments fillers or aggregates	106	452
Pyrometallurgy	75	668+
Combined with hydrometallurgy	75	416+
Cafeteria		
Coffee service unit	D34	14
Tray dispenser unit	D34	14
Caffeine	544	274
Extraction from coffee	426	427+
Cage		
Animal mouth guard	119	133
Bank protection	109	10+
Bearing		
Ball	384	523+
Making	29	898.64
Radial	384	512+
Thrust	384	623
Bird and animal confining	119	17+
Design	D30	114+
Fish and animal traps	43	58+
Design	D22	121
Material handling		
Hand type	294	26.5
Hoist line type	294	68.1+
Mills	241	188R
Plant supports	47	45
Queen bee	449	28
Shower bath spray	4	601+
Solid fuel grate	110	294
Water cooled	122	373
Type antenna	343	896
Washing apparatus having	68	
Caisson		
Box or open	405	11+
Diving bell type	405	185+
Ordnance	89	40.7
Pressurized	405	8+
Shaft lining	405	133
Ship raising	114	49
Ship raising salvage	114	53
Ship repair	405	12
Shoring, temporary	405	272
Cake		
Compositions	426	552+

	Class	Subclass
Cover	312	283*
Cutter or server	D 7	673
Design	D 1	129*
Dish or cover	D 7	610
Enfolding with enfolding with cloth before	100	101
Inedible	D11	184
Pans	249	DIG. 1
Stripping cloth from cake after pressing	100	298
Trimmers	100	94*
Calciferol	552	653
Calcimines (See Kalsomines)		
Calcining		
Furnaces	432	
Portland cement processes	106	739*
Calcium (See Alkali, Earth Metal)	75	
Carbide	423	
Acetylene generator carbide feed	48	38*
Cartridges	48	59*
Compounds inorganic	423	
Calculator (See Computer)	235	61R*
Design	D18	6*
Instruments simulating	33	1SB
Specific gravity test	73	443
Vehicle controlling	364	424.1*
Calender	40	107*
Clocks	368	28*
Coin controlled	40	107*
Design	D19	20*
Desk article combined	40	358
Holder design	D19	20*
Pads	40	121
Printed matter type	283	2*
Watches	368	28
Calender		
Roll	29	110*
Paper manufacture	100	161*
Textile	38	63*
Calendering		
Cloth finishing	38	52
Laundry	38	44*
Paper	100	161*
Plastics	425	363*
Calesthenic Wands	272	93*
Calibrating		
Battery calibration	136	290*
Electrophotographic copier	355	203
Instrument	73	1R*
Measuring and test instrument	73	1*
Radar systems	342	165
Radiant energy device	250	252.1
Caliper	33	783*
Assorter combined	209	602*
Brake	188	
Bicycle	188	24.11*
Disc type	188	71.1*
Design	D10	73
Gauge	33	501.7*
Calk		
Forming on horseshoes	59	65
Combined machines	59	39
Horseshoe calk making	59	66*
Horseshoe type	168	29*
Sharpener	51	172
Tool	168	46
Shoe device	36	67R
Tire antiskid device	152	229*
Calking		
Compositions	106	
Dispenser	222	
Gun	222	326*
Edge sealing laminated glass	156	107
Implements	81	8.1
Metal packing	72	462*
Pointers for masonry	15	235.3
Ship calking	114	224
Metal working	72	462*
Methods	114	86
Packing fibrous material	81	8.1
Puttying devices	425	87
Puttying devices	425	458
Seaming ships combined	114	86
Calling Card Receiver	D 6	449
Calliope	84	330
Callus Culture	435	240.48*
Calomel	423	491
Medicines containing	424	645
Calorimeter	374	31*
Calutron		
Mass spectrometer	250	281*
Structure	313	359.1
Cam (See Apparatus Using)	74	567*
Actuated or operated	74	
In bolt to nut lock	411	272
Camber		
Correction		
Bending for	72	704
Bending three point jacks	72	386*
Forging for	72	704
Vehicle running gear spring	280	688*
Vehicle running gear stub axle	280	661
Test wheel gauge	33	203
Cambric	139	426R
Camel		
Ship raising	114	49
Salvage	114	53
Cameo Molds	249	104
Camera	354	288
Animated cartoon	352	87
Carrier or holder	224	908*
Hand	294	139
Cases	206	316.2
Cinematographic	D16	205*
Compound lens system with	350	502
Copy making, eg mechanical negative	430	951*
Copying	355	18*
Design	D16	200*
Electronic still	358	909
Scanned semiconductor matrix	358	213.11*
Exposure control, automatic	354	410*
Film winding spools	242	71
Motion picture	242	210
Flashlight	354	126*
Focusing, automatic	354	400*
Lens mount	354	286
Angularly adjustable camera front or lens mount	354	189
Lucida	350	121
Mammography study	128	915
Microscope	350	511
Motion picture	352	
Film winding	242	179*
Multiple exposure on single plate	354	120*
Obscura	350	122
Panoramic	354	94*
Periscope	350	541
Photographing internal body organs ultrasonically	128	660.1*
Reflex	354	152
Reproducing	355	18*
Schmitt		
Lens and mirror	350	443
Motion picture	352	69
Television	358	209*
Shutter	354	226*
Automatic control	354	456*
Between lens	354	233
Mechanical test	73	5
Optical test	73	5
Timer	354	267.1*
Stereoscopic	354	112*
Submarine motion picture	352	132
Supports	354	293*
Tripods	248	163.1*
Telescope	350	557
Television	D16	202
Time lapse	352	84
Tripod	354	293*
Twin lens reflect	354	151
Ultrasonic scanning	128	660.1
Blood	128	660.2
Flow	128	661.8
Breast	128	915
Mammography	128	915
Pressure	128	660.2
Temperature	128	660.2
Therapy	128	660.3
View finders	354	219*
Geometrical	33	290*
Motion picture	354	219*
Perpendicular to objective lens	D16	217
Camisole	D 2	23
Camouflage		
Canopies	135	87*
Coat hunters	2	94
Coating composition	106	
Coating non-uniform	427	256*
Illusion	273	
Including open mesh	428	255*
Ordnance	89	36.1
Stock material	428	919*
Tents	135	87*
Worship	114	15
Camp and Camping		
Beds	5	112*
Bodies land vehicles	296	156*
Chairs folding	297	16*
Ground mat	5	417*
Kit combined or convertible to table	190	12A
Lunch kits	206	541*
Sleeping bag	2	69.5
With bed structure	5	413
Stools folding	297	166
Stoves cooking	126	25R*
Stoves heating	126	59
Tables convertible baggage	190	12R
Tent	135	87*
Heater	126	59
Trailer design	D12	101*
Vehicle design	D12	100
Camphene (See Alicyclic Hydrocarbon)	585	350
Terpene isomerization	585	355
Camphor	568	339*
Camphoric Acid	562	504
Camping (See Camp)		
Camshafts	74	567
Drive means internal combustion engine	123	90.31
Overhead location	123	90.27
Can (See Container)		
Beer, pop, or food	206	139
Carrier by hand	220	
Crushers	100	902*
Presses in general	100	
Cutting to scrap	83	923
Design	D 9	
Filling and closing	53	266R*
Insulating jacket	220	903
Labeling machines	156	
Leakage tester	73	40*
Discarding type	73	45*
Making		
Body straightening	72	367*
Fusion-bonding apparatus	228	
Metal cap preparing machine	413	56*
Sheet metal container making	413	
Metal and miscellaneous	220	
Milk	220	
Milking machine	119	14.46
Nuclear fuel containing	376	409
Openers	30	400*
Closure combined	220	260
Cutter type combined	7	152*
Design	D 8	33*
Electric	30	401
Key holder combined	D 3	64
Other tool combined	7	151
Receptacle puncturing and closing	220	278
With dispensing features	222	81*
Packing in portable receptacles	53	531*
Processors	99	359*
Resilient wall	222	206*
Testers leak detector	73	52
Vacuumizing & sealing methods	53	403*
Valves for conveying		
Bin charge or discharge	414	288*
Chute retarders	193	32
Chute switches	193	31R
Cooker inlet or outlet	99	366
Horizontal axis rotary conveyor	198	670
Horizontal axis spiral	198	778
Rotary conveyor	198	803.1
Thrower	198	642
Washers and cleaners		
Brushing machine	15	70*
Liquid contact	134	
With valved outlet	222	
Canal	405	84*
Amusement park	104	73
Boats		
Form	114	60
Structure	114	70
Locks	405	85*
Canceler		
Fare box ticket puncher combined	232	8
Stamp		
Barrel bung	217	114
Hand	101	371
Machine	101	233*
Cancer Treatment		
5-flurouracil	544	313

	Class	Subclass
Candelabra	431	295
Electric	362	410+
Design	D26	24
Candle	431	288
Candlestick	D26	9+
Compositions for making	44	275
Design	D26	6
Electric lamp	362	157+
Electric socket simulating	200	51.1
Extinguishers	431	144+
Forming	425	803*
Fumigants	424	40
Holders	431	289+
Christmas tree	362	249+
Design	D26	9
Imitation	362	810*
Lanterns using	362	161
Lighters (See igniter and ignition)		
Lighting imitation of	362	810*
Making		
Casting or molding apparatus	425	117+
Casting processes	264	271.1+
Dipping processes	427	442+
Physical and ornamental structure	431	126
Shade or bowl supports for	362	447
Simulated	431	125
Snuffers	431	144+
Design	D29	2
Miners	7	104+
Candling	356	52+
Candling, instrument	D10	48
Candy		
Coating apparatus	118	13+
Compositions	426	
Cutting machine	83	
Design	D 1	127+
Kneading-pulling equipment	366	70
Making, apparatus	99	450.1
Making, processes	426	
Cotton candy	425	9
Preservation	426	321+
Stick, container	493	943*
Cane	135	65+
Design	D 3	5+
Detonating toy	446	402+
Fabrics	139	424
Gun combined	42	52
Light combined	362	102
Locks for cane racks	70	59
Racks	211	62+
Simulated umbrella case	135	18
Stand convertible	248	155
Stand or stool converting to	248	155+
Therapeutic appliers combined	128	394
Umbrellas combined	135	17
Whip convertible	231	3
Canister		
Design	D 7	612+
Gas separation	55	
Projectile	102	507+
Canning		
Cooking and subsequent	99	356
Cooking filled receptacles	99	359+
Filling and closing	53	266R+
Food preserving apparatus	99	467+
Food preserving processes	426	392+
Hermetic	426	392+
Cannon	89	
Toy	42	55
Cannula	604	239
Attaching means	604	240+
Medicator combined	604	187+
Structure	604	239
Canoe	114	347+
Chair	114	363
Design	D12	302
Paddles	440	101
Sails	114	103+
Canopy	135	87+
Bed	5	414+
Camp	5	113
Hammock and canopy with common support	5	128
Hammocks	5	121
Body or belt attached	224	186
Building light type	350	258+
Cabinet type	312	3+
Coffin	27	9
Design	D25	56
Flexible panel combined	160	19+
Frames	135	101+
Light shade	362	351+
Light support	362	404+
Padlock shields	70	56
Reflector	362	341+
Rigid type	52	74+
Support type	248	345
Tent-type design	D21	253+
Cant Hook	294	17
Canteen		
Design	D 3	30.1+
Flow controller or closure	222	544+
Jacket or spaced wall	220	415+
Jacketed dispensing type	222	131
Kit with	206	547
Separable cup or funnel	141	379+
Cantilever		
Bridge	14	7+
Building	52	73+
Design	D25	61
Spring	267	41
Canting Element in Bolt to Nut Lock	411	274+
Canvas		
Awning stripe	139	417
Fabric	139	426R
Shoes rubber sole	36	9R
Caoutchouc (See Rubber)		
Cap		
Ammunition	102	204
Making	86	10+
Apparel	2	195+
Bathing	D 2	68
Bathing design	D 2	510+
Design (See headwear)	D 2	509+
Protective against blows	2	410+
With eye shield	2	10
With light support	362	106
Beading and crimping	72	102+
Blasting	102	275.12
Bottle seal	425	809*
Brush and broom type	15	175
Burner		
Extinguishing	431	146
Chimney		
Coping	52	244
Cowls	98	61+
With valve	98	59
Closure		
Auto radiator or gas tank	D12	197+
Bottle	215	200+
Depressible oil cup cap	184	89
Design	D 9	435+
Flexible bag	383	80
Inflation stem air & dust cap	138	89.1+
Inflation stem air cap	138	89.3
Inflation stem dust cap	138	89.4
Inflation stem dust cap and tool combined	152	431
Lining apparatus	156	
Lining combined with metal working	413	
Lining process	156	262
Making from sheet metal	413	8+
Apparatus	413	56+
Removers	81	3.7+
Screw type	220	288
Slip type	220	352
Soldering to can	228	
Coating implement with material supply combined	401	
Column	52	301
Detonating toys	446	398+
Mechanical projector combined	124	2
Pistol simulating	42	54+
Electric fuse terminal	337	248
Fastenings for saw teeth	83	840+
Fountain pen bifurcate nib-type	401	243+
Gas or radiator	D12	197+
Insulator	174	188+
Lock	70	158+
Making		
Ammunition	86	10
Die shaping sheet metal	72	343+
Spirally grooving metal	72	105+
Mast	212	266
Nail screw and nut		
Nut caps	411	429+
Pile driving	173	128+
Pile protector	405	255
Pipe vented	98	122
Radiator		
Ornament	428	31
Ornament bird or insect	40	411+
Removing	29	245
With thermometer	209	684
Spinning machines	57	74
Strand twisting and laying	57	127
Surfacing	52	465+
Tower	52	649
Typewriter key	400	490+
Ventilating	98	122
Wheel hub	301	108R
Whip	231	6
Capacitance Interelectrode Testing		
Electronic Tube	324	409+
Cathode ray tube	324	404
Capacitor (See Condenser; Electret)		
Air dielectric	361	326+
Design	D13	125
Neutralizing	361	212+
Capacity Measuring Bridge	324	680+
Cape Body Garment	2	88+
Design	D 2	179+
Combined	D 2	180+
Combined with dress	D 2	89+
Combined with evening dress	D 2	53+
Combined with suit	D 2	87+
Capillary		
Active agents (See wetting)	252	351
Heat exchange pipe	165	104.26
Tube, refrigeration using	62	511
Capotaste	84	318
Capping		
Bottles	53	287+
Nails and screws	10	156
Screw closure applying		
Soldering iron having guide	228	25+
Capric Acid	260	413+
Caprylic Acid	260	413+
Capsaicin, in Drug	514	627
Capstans	254	266+
Capsule (See Container)		
Composite stock material with liquid	428	321.5
Filling and closing	53	266R+
Making by dipping	425	269+
Making, X-art	425	804*
Medicine vehicle	424	451+
Microcapsule (See microcapsule)		
Nonmetallic collapsible wall	222	107
Sheet metal making	72	347+
Stock with liquid	428	321.5
Car (See Vehicle)		
Airship	244	30
Bodies and tops	296	
Control		
Electric railway external	104	295+
Elevator	187	28+
Elevator brakes and catches	187	73+
Elevator fluid governors	187	68+
Railway switches and signals	246	
Vehicle fenders combined	293	2+
Derailer railway	246	163
Car attached	104	261
Elevator or hoist	414	227+
Dumb waiter type	187	5
Superposed	187	16
Fire escape reciprocating moving rope	182	12+
Fire escape reciprocating stationary rope	182	189+
Fire escape vertically movable	182	40
Hand	105	162
Heated and cooled	165	42
Automatic control	165	25
Land vehicle	280	
Loading or unloading	414	373+
Railway unloading using tractor-trailer	414	333
Self	414	467+
Train of unloading vehicles	414	339
Motor	180	
Propulsion (See electric)		
Elevator	187	17+
Railway	105	
Railway cable crossing conduit	104	187
Railway cable curves	104	190
Railway systems	104	287+
Road vehicle	180	
Store service	186	
Pusher		
Implement	254	35+
Railway hand crank	105	90.1
Railway	105	

	Class	Subclass
Amusement	104	53*
Cable mule	104	176
Elevator	104	128
Forging dies	72	343*
Ladder	182	93*
Pilot or signal	246	166
Stop	104	249*
Toy simulation	446	431*
Yard	104	26.1*
Refrigeration	62	239*
Air controller combined	62	407*
Alternately usable energy source	62	236
Separable cooling means	62	237
Variable capacity ice bunker	62	327*
Replacer	104	262*
Retarder railway	188	62*
Stock	119	7*
Store service cable	186	18
Vehicle unloading	414	373*
Dumping tilting track section	414	354*
Caramel	127	29
Flavoring compositions	426	658*
Making	127	34
Carbamic Acid	562	555
Carbamic Acid Esters	560	24*
Acyclic	560	132*
Alicyclic	560	115
Nitrogen ctg	560	157*
Sulfur ctg	560	148
Carbanilide	564	55
Carbazide	564	34
Carbazole	548	440*
Azo compounds	534	790
Carbazones & Semicarbazones	564	36
Carbenicillin	540	338
Carbide (See Calcium, Carbide)	423	
Acetylene from	48	
Actinide	423	249*
Alloys	75	236*
Cartridges	48	59*
Ceramic compositions containing	501	87*
Metal impregnated	428	539.5
Silicon	423	345
Tungsten	423	
Uranium	423	256
Carbitol T M	568	613*
Carbocyanine Dyes	546	152*
Photographic emulsions containing	430	541
Carbocyclic	260	350R*
Carbodiimides	564	252
Polymers from (See synthetic resin or natural rubber)		
Structure in cellular polymer	521	901*
Carbohydrate, Sugar and Starch	127	
Coating or plastic compositions	106	162*
Derivatives	536	1.1*
Nitrogen containing	536	18.7*
Diastolic mashing	435	93*
Fermentative purification	435	262*
Polymers containing (See synthetic resin or natural rubber)		
Wave energy preparation	204	157.68
Carbolic Acid (See Phenols)		
Carbon	423	445*
Absorbents	502	416*
Carbonizing processes	502	416*
Regeneration	502	20*
Activated	502	180*
Agglomerating	23	314
Apparatus for making	422	150*
Compositions containing synthetic resin or natural rubber (See classes 523, 524)		
Compounds	260	
Preparation by wave energy	204	157.6
Dioxide	423	415R
Hydrogenation of	518	700*
Refrigerating with	62	384*
Refrigerating with, automatic	62	165*
Solidifiers	62	8*
Synthesis gas containing	252	373
Disulphide	423	443*
Biocides containing	424	707
Carbon disulphide	424	701
Viscose preparation	536	60*
Electric furnaces for treatment		
Electric lamp filament	252	500*
Electrode (See electrode)		
Arc lamps consumable	314	60
Furnace	373	88*
Space discharge device	313	326*
Electrolytic electrodes	204	294
Fibre	423	447.1
Processes of manufacture	423	449
Product per se	423	447.2
Filaments	313	341*
Fluorocarbon preparation from	570	150
Layer impregnated or coated	428	408
Leaf and strip	282	
Preparation by coating	427	153*
Typewriter	400	497*
Lubricants containing	252	16*
Microphone, granular	381	180*
Moderator structure	376	350
Moderator structure for nuclear reactors	376	458
Monoxide	423	439
Carboxylic acid production		
Acyclic acid	562	517*
Alicyclic acid	562	497
Aromatic acid	562	406
Utilizing	562	
Generator	48	85
Hydrogen production utilizing	423	648.1
Hydrogenation of	518	700*
Neutralizing agents for	252	189*
Organic acid production utilizing	562	408*
Synthesis gas containing	252	373
Paints containing	106	261
Paper	428	488.1*
Business forms	282	28R
Container	206	215
Design	D19	1
Flux	148	23*
Pigments	106	472*
Preparation by carbonization	201	
Preparation by electrochemistry	204	173
Prevention in mineral oil conversion	208	48R
Refractory compositions	501	99*
Removal (See decarbonizing)		
Saver arc lamp	313	335
Tetrachloride	570	101*
Carbon Black	423	445*
Carbonate	423	419R*
Electrolytic synthesis	204	87*
Esters of carbonic acid	558	260*
Fertilizers containing	71	
Fire extinguishing compositions containing	252	7
Carbonation		
Alcoholic beverage processes with	426	592
Beverage	261	
With flavoring means	99	323.2
Carbonation equipment	D 7	300*
Carbonators	261	DIG. 7
Colloid systems foams	252	307
Fire extinguishing compositions	252	8
Foam control in handling gas charged liquids	137	170.1*
Gas and liquid contact apparatus	261	
Carbonic or Chlorcarbonic Acid Esters	558	260
Carbonium Ion Production in Hydrocarbon Synthesis	585	942*
Carbonizing (See Carburizing)		
Absorbents	502	416*
Barrel interiors	432	224
Distillation	201	
Apparatus	202	
Fabrics	8	140
Molded article	264	29.1
Fiber formation	264	29.2
Fiber, fabric or textile	423	447.1
Ovens	202	215*
Processes	201	
Mineral oils	208	46*
Textiles	8	140
Apparatus	68	2
Carbonless Transfer Paper	503	200*
Carbonyl Halides	562	840
Carbonylamides	564	123*
Stabilized or preserved	564	4
Carbonyls	423	416
Carboxamides	564	123*
Acyclic acid amides	564	192
Aldehyde or ketone ctg acid	564	199*
Halogen ctg acid	564	209*
Hydroxy or ether ctg acid	564	201*
Lower fatty acid	564	215*
Nitrogen ctg acid	564	193*
Unsaturated acid	564	204*
Alicyclic acid amides	564	188*
Aminimine ctg	564	147
Aromatic acid amides	564	161*
Aldehyde or ketone ctg acid	564	169
Diphenyl methane ctg acid	564	181
Hydroxy or ether ctg acid	564	170*
Phenoxy alkanoic ctg acid	564	175
Monocyclic ctg acid	564	182*
Nitrogen ctg acid	564	163*
Polycyclo ctg acid	564	180
Sulfur ctg acid	564	162
Hydazine ctg	564	148*
Plural carboxamides	564	152*
Preparation		
By acid hydrolysis only of nitrile	564	129
By catalytic hydration only of nitrile	564	126
By nitration of amides	564	146
From acyclic nitrile	564	130
Unsaturated	564	131
From carbon monoxide or dioxide	564	132
From carboxlic acids of functional derivative	564	133
From acids	564	138*
From anhydrides	564	144
From esters	564	134
From cyano compound	564	124*
From hcn or cyanogen	564	125
From acid halides	564	142*
Carboxylate (See Carboxylic Acid)		
Carboxylic Acid Anhydrides	562	887*
Carboxylic Acid Esters	560	1*
Aromatic	562	405*
Fermentative production of	435	136*
Hydrophenanthrene nucleus ctg	562	403*
With preservative	560	2*
Carboy (See Bottle)	D 9	367*
Dispenser casing	222	183
Jacketed	222	131
Spaced wall or jacket	215	12.1*
Metallic	220	445*
Carburetor		
Carbureting processes heating gas	48	219
Hydrogen	48	199R
Water	48	205
Deicers for	261	DIG. 2
Drawing excess fuel from carbureting passage	261	DIG. 21
Fluid amplifiers in	261	DIG. 69
Gas and liquid contact apparatus	261	
Heating and illuminating gas generator	48	144*
Cupola water	48	79*
Hydrogen	48	116*
Oil and steam	48	96
Water	48	109
Heating and illuminating gas mixers	48	180.1*
Internal combustion engine		
Additional air supply	123	26
Charge forming	123	434*
Spray nozzles	239	
Liquified petroleum gas (lpg)	48	180.1*
Manifolds	261	DIG. 36
Primers	261	DIG. 8
Primers, ticklers	261	DIG. 73
Processes, carburetors	261	DIG. 45
Surge prevention in	261	DIG. 5
Venturi	261	DIG. 12
With supercharging blowers	261	DIG. 51
With valves	261	DIG. 52
With vented bowl	261	DIG. 67
Carburizing		
Apparatus	266	249*
Continuous casting combined	164	473
Metal casting combined	164	55.1*
Metal treatment	148	
Molten iron or iron alloys with solid	75	561
With solid and gas	75	532
Carbylamines	558	302*
Carcass		
Labels or tags	40	625*
X-art collection	40	908*
Splitting, butchering	17	23
Card	D19	34.1
Addressing plate combined	101	369
Assorting	209	613
Case and holder	150	147*
Case design	D 3	56*
Coin	229	92.9
Pocket type	206	39*
Trays	206	425*
Typewriter paper	400	521*
Clothing		

	Class	Subclass
Fiber preparation	19	114
Grinding	51	242+
Wireworking	140	97+
Cordage	242	50
Design	D19	1+
Dispensing		
Feeding or delivering	271	
Packages	206	233
Pocket case	206	39+
Exhibiting	40	
Design	D20	10+
Magazine	312	50
Packages	206	44.11
Racks	211	50+
Trays	206	425
Fabric winding	242	61
File directory	40	371+
Greeting		
Design	D19	1
Postal	229	92.8
Subject matter	283	117
Toys	446	147+
Grinders	51	242+
Holder or file	D19	75
Index	40	380
Indexed	283	36+
Label affixing machine	156	
Letter sheets	229	92.1
Match	44	507+
Folder	206	104+
Music teaching	84	481
Playing	273	292+
Design	D21	42+
Postal packets	229	92.8
Design	D19	1+
Protrusion to receive identification	40	360
Rack	211	44
Picture or business card display	40	124
Rack stacked article	211	50
Receiver plate	D 6	449+
Record machine control	235	487
Retaining cabinet	312	183+
Selection		
Magnetic code	209	569
Peripheral shape	209	608
Sewing machine	112	4
Stop motions for jacquard looms	139	338
Support	D 6	396
Tables folding	108	115+
Tray-type container	206	557+
Verifying	73	156
Weaving pattern	139	333
Workmens, time	346	134
Card or Sheet Dispenser	221	33+
Cardboard		
Boxes	229	100+
Making machine	493	52
Cardenolides	540	105
Cardiac (See Heart)		
Cardiovascular diagnosis	128	668
Cardigan	D 2	47+
Carding	19	98+
Card clothing making	140	97+
Safety pins	227	25
Tobacco		
Cigar and cigarette making combined	131	109.1
Leaf disintegrating	131	311+
Stemming	131	321
Twisting combined	57	327
Cardiographs (See Electrocardiographs)		
Carillons	84	406+
Carline	52	46+
Carotene Synthesis	585	351
Carousel	D21	249
Carpet		
Attachment (See fasteners)	16	1R
Anti-slip (See fasteners)	16	1R
Stiffener	16	1R
Axminster	139	399+
Apparatus	139	7+
Cleaning machinery	D32	15+
Coated	428	96
Cushion and padding	D 5	
Design, carpet per se	D 6	582
Design, yard goods for	D 5	
Dyeing	8	929*
Electrically heated	219	528+
Fastener	16	4+
Fringed	428	115
Installation compound tools	7	103+
Knitted	66	194
Laminated	428	96
Pile or nap type	428	85+
Seam bonding	156	304.7
Sewing machines	112	7+
Sheet runners	D 5	
Stretcher	294	8.6
Mechanical advantage utilizing	254	200+
Suction cleaner	15	300.1+
Sweeper	15	41.1+
Design	D32	50+
Tufting	112	410+
Woven	139	399
Weight	16	1R
Wilton brussels or velvet	139	391+
Making	139	37+
Woven	139	391+
Yardgoods design	D 5	
Carport or Garage	D25	34
Carriage		
Baby	280	47.38+
Design	D12	128
Powered	180	166
Blanket or robe design	D 6	603+
Feed		
Calculator	235	63R
Lathe	82	132+
Sheet metal spinning pattern controlled	72	81
Stepping-motor drive for	400	903*
Firearm	42	94
Fluid motor tide or wave	60	497+
Manufacture		
Irons forging dies	72	472+
Ordnance	89	37.1+
Tool or work		
Band saw	83	406.1
Circular saw reciprocating	83	435.1
Circular saw rotary	83	409.1
Circular saw swinging	83	730
Coopering crozing staves		
Endless stave	147	19
Sliding stave	147	20
Swinging stave	147	21
Coopering jointing staves saw		
Sliding	147	30
Tilting	147	31
Diminishing work piece slicer	83	703+
Mechanical movement	74	
Rotary gearing	74	353
Swinging gearing	74	354
Saw making reciprocating tool	76	33
Saw making rotating tool		
Pivoted	76	42
Sliding	76	43
Sawmill	83	713+
Sheet metal container seaming	413	69+
Shingle sawing	83	704+
Textile apparatus doffing or donning	57	268+
Textile apparatus drawing	57	320
Checks	57	320
Traveling cutter for sheets and bars	83	614
Wire fabric making	140	29
Wood turning	142	47
Traversing hoist		
Holders	212	122
Release	212	112
Typewriter	400	352+
Vehicle		
Land	280	
Land bodies and tops	296	
Land dumping	298	
Motor	180	
Carrier (See Bucket; Conveyor; Receptacles)		
Article or package carrier	224	
Baby	D 3	31
Bottle	294	
Multiple type grapple	294	87.1+
Braiding textiles	87	33+
Brakes for single rail conveyor type	188	42
Brick	294	62+
Camera plate	354	178+
Cartridge	224	223+
Bandoleer	224	203
Covered	224	239
Case for sewing machine or typewriter	312	208
Casket	27	27
Casting apparatus	164	323+
Chutes skids guides and ways	193	
Cooking apparatus	99	324+
Corpse	27	28
Dumping scows	114	27+
Earth boring cuttings type	175	
Elevator type material handling	414	592+
Carrier operated feed	414	609+
Inclined	414	595+
Endless		
Article magazine	312	97
From static support	198	506+
Auxiliary item storing section	198	347.1+
Between plural conveyers	198	620+
Bottle brushing machine	15	60
Bucket	198	701+
Can body feeding	413	45+
Check released article delivery	194	
Coin trap closure	232	56
Cutting harvesters	56	181+
Dragline scoop combined	414	569
Drying house	34	207
Fire escape	182	42+
Flexible pocket	198	715
Furnace charging reciprocating	414	156
By driven force	414	198
Furnace charging type	414	147+
Grain separator straw	460	86
Hoist combined	414	564
Hopper bottom forming	198	550.1
Having gravity conveyer section	198	550.1+
Item holder	198	375+
Item holder	198	688.1+
Loading machine type, buckets	198	509
Mold for metal	164	324
Plural mold cigarette making	131	87
Plural rotary conveyer	198	608
Potato digger	171	94
Potato digger	171	111+
Rack	211	121+
Raking and loading harvesters	56	345+
Reciprocating abrading tool	51	61
Rotary abrading tool	51	76R
Sheaf	56	477
Sheet drying apparatus	34	162
Showcase	312	134
Traveling band abrader	51	138
Vehicle loading external	414	398
Vehicle unloading external	414	390+
Wood planer	144	123
Feed tables for shearing machines	414	677
Fire escape chute or tower	182	48+
Fire or heat shield	182	47
Fluid current	406	184+
Furnace charging or discharging	414	147+
Furnace fuel feeders	110	101R+
Glass mold	65	361
Grain separator straw	460	86+
Hand held	294	137+
Harness trace	54	54+
Harvester	56	474+
Corn	56	121
Hose or nozzle support ladder combined	248	78
Mechanical gun projectiles	124	41.1+
Occupant propelled vehicle combined	280	202+
Package and article	224	
Person	224	158+
Hand held	294	140+
Photographic fluid treatment	354	297+
Pivoted		
Cutting machine knife	83	597+
Screw threading machine chaser	408	150+
Shoe nailing machine	227	41
Pneumatic dispatch	406	184+
Railway drawbar	213	
Reciprocating		
Abrading band	51	142
Cutting machine knife	83	613+
Envelop machine	493	186
Shoe nailing machine	227	99+
Reel	242	85+
Design	D 8	358+
Design, fishing	D22	137+
Fabric	242	64
Hose	242	86+
Rotating		
Acetylene generator carbide feed	48	48
Article heating	432	138
Bottle brushing machine	15	63+

	Class	Subclass
Can body feeding	413	50
Cotton picker spindle	56	44+
Drying apparatus	34	184+
Furnace charging reciprocating	414	156
Needle making	163	4
Photographic fluid treating	354	313
Plural mold cigarette making	131	87
Selective printing plate	101	62
Shoe nailing machine	227	99+
Slide	353	117
Tobacco plug making	131	115
Wood shaping work	144	154
Selective conveyor delivery	414	227+
Controlled by condition of site	414	232
Sewing machine article attaching	112	104+
Sewing machine work	112	121.12
Sewing machine work	112	121.15
Shuttle thread carrier supports	139	206+
Sleeping compartment combined	224	923*
Spool supports	242	136
Store service	186	
Strap	294	149+
Swinging		
Drying apparatus	34	184+
Telephone	379	64+
Textile fluid treatment	68	
Traversing hoist rope	212	117+
Truss pad	128	106.1
Type casting matrix carriers	199	
Umbrella	224	186+
Folded umbrella	224	915*
Vehicle attached	224	273+
Vehicle loading and unloading	414	340+
Forming a train of vehicles	414	339
Forward movement onloads	414	338
Forward movement unloads	414	337
Partly independent of vehicle	414	334+
Tractor-trailer to unload	414	333
Vertically swinging	414	680+
Tilting	414	743
Weapon (See type of weapon)	224	
Weft replenishing feeler	139	269+
Wheeled drum	242	95
Carrier Current		
Modulator	332	
Radio system	455	
Telegraph system	178	66.1+
Multiplex	370	45
Telephone system	379	64+
Combined with power line	379	66
Multiplex	370	69.1
Carrier Wave Repeater or Relay	455	7+
Frequency division multiplexing	370	75
Pulse or digital	375	3+
Time division multiplexing	370	97
Carroting	8	112
Apparatus	69	28
Carrousel	272	28R+
Organ	84	84+
Cart (See Vehicle)		
Brakes	188	19
Harness saddles	54	39
Shopping	280	47.26
Nesting	280	33.991+
Carton, Paperboard	229	100+
Cutter	83	946*
Filling and sealing	53	
Flap deflector or closer	414	906*
Forming machines	493	52
Openers	53	381R+
Dispensing carton	222	80+
Openers, cutlery	30	2
Tools	30	2
Cartoon Motion Picture Photography	352	50
Cartridges (see Detonators, Signal and Indicators)		
Ball point	401	209+
Belt with cartridge holder	D 3	100
Belts	89	35.1
Beverage infuser	99	295
Carbide feed acetylene generator	48	47
Carbide for acetylene generator	48	59
Carriers body or belt attached	224	223+
Bandoleer	224	203
Covered flaps	224	239
Case	102	464+
Case necking die shaping	72	352+
Edge trimmer	29	1.32
Extracting tools	81	3.5
Explosive	102	430+
Belts, disintegrating	89	35.2+
Blasting	102	314+
Case making	29	1.3+
Caseless	102	431+
Chutes	193	25AC+
Combustible	102	700*
Feeding ammunition making	86	45+
Feeding gun (See magazine)	89	33.1+
Loading	86	23+
Making	86	10+
Packing	86	47
Priming	86	32+
Pyrotechnic	102	346
Film pack or cartridge	430	471
Film pack with structure	354	275+
Fuse electric	337	228+
Ink rupturable	401	132+
Material containing for dispenser	222	325+
Tiltable holder for	222	165
Motion picture film	242	197+
Picture film	D14	121
Tape recording or motion picture film	242	197+
Container for	206	387
Carvacrol	568	781
Carving		
Wood processes	144	363+
Cascade		
Connection for alternating current motors	318	49+
Refrigeration	62	335
Automatic	62	175
Case (See Casing; Receptacles)		
Blacking box and brush	15	258
Blacking or brush retained	401	118+
Body and belt attached	224	191+
Body electric applicators	128	801+
Cardcase	150	147+
Cartridge	102	464+
Cigar	206	242+
Combination	206	38
Cigarette pack	D27	186+
Clock	368	276+
Design	D10	1+
Crank	123	
Fishing rod	43	26
For transporting, handling of goods	D34	40+
Hardening	148	
Lighted showcase	362	125+
Matches	D27	173+
Paper cell making	493	90
Pass or identification card	40	642+
Design	D19	9+
Piano	84	177+
Automatic	84	80+
Pocket for smoking pipe	206	244
Protective	206	521+
Reed organ	84	352+
Sample	190	16+
Shift		
Typewriter ribbon mechanism	400	216.6+
Typewriting machines	400	251+
Show	312	114+
Design, store furniture	D 6	
Special	206	
Musical instrument	206	314+
Pocket and personal use	206	37+
Spectacle	206	5+
Tennis racket	273	74
Type	276	44+
Umbrella	135	33C
Imitation cane combined	135	18+
Upending bed	5	159.1+
Vehicle foldable to traveling	280	37
Violin	206	14
Watch	368	276+
Design	D10	30+
Watch manufacturing processes	29	179
Wooden	217	5+
Barrel	217	73
Bottle mailing	217	127
Egg	217	18+
Insulated	217	128+
Cased Glass Making	65	60.1
Casein	530	360
Coating or plastic compositions containing	106	138+
Foods	426	656
Casement		
Housed roll	160	26
Metal window fasteners	292	DIG. 33
Cash Register and Recorder	D18	4+
Coin box	235	100
Combined	235	2+
Computer controlled, monitored	364	405
Fare	235	33+
Recorders	235	4+
Registers	235	7R+
Cashew Nut Shell Liquor	562	475
Polymers from (See also synthetic resin or natural rubber)	528	1+
Cashmeres, Design	D 6	603+
Casing (See Case; Envelope; Guard; Housing; Package)		
Abroding apparatus	51	268+
Bearings	384	
Body light	128	396+
Boiler	122	494
Stand type water tube	122	19
Vertical sectional	122	224
Book making	412	1
Brushes and brooms	15	171+
Car stove protective	126	57
Closure fastening bolt	292	337
Clothesline type reel	242	100+
Clutch	192	112
Coffin	27	35
Dispenser	222	173+
Article	221	282+
For single mixed drink	222	129.1+
Door and arch	110	181+
Cooling	110	180
Driven spoke reinforcing	301	83
Plural spoke series	301	77
Electric conductor and insulator	174	50+
Sleeve and end cap type joints	174	93
Vacuum or fluid containing	174	17R+
Expansible chamber device	92	261
Filter	210	541
Flashlight battery type	362	157+
Flat	362	200+
Tubular	362	202+
Food preserving	426	321+
Sausage	426	332+
Food process	17	49
Rotary	415	182.1+
Heat exchange		
Chamber	165	72+
Horizontal	165	157+
Motor vehicle radiator	165	148+
Trickler	165	115
Vertical	165	157
Hot air furnace	126	114
Lantern	362	362+
Machine elements	74	606R+
Guards	74	608+
Marine screw propeller	440	76
Measuring instrument	73	431
Design	D10	46+
Metal rolling apparatus	72	237+
Metal working with centrifugal casing	29	DIG. 6
Metal working with composite casing	29	DIG. 8
Meter	73	273+
Meter circuit protectors	361	368+
Muffler and sound filter	181	282+
Pipe joint coupling	285	45+
Pneumatic conveyor material intake fan	406	96+
Rotary	415	89
Railway draft friction		
Drawbar	213	65
Spring combined	213	31+
Shoes and wedges	213	24
Railway motor placement	105	140
Axle mounting and stator combined	105	137
Ray generator	250	522.1
Reel carrier, hand or body	242	96
Rotary shafting	464	170+
Flexible shaft combined	464	52+
Sash cord guides	16	211+
Wheel and	16	215
Sewing machine casing	112	231
Shirred sausage casing	206	802*
Sifting	209	370+
Sight glasses for liquid level gauges	73	325+
Sign illuminated	40	541+
Signal for vehicle illuminated	116	49
Stove hood	126	302+
Switch	200	293+
Thermal current	337	186

	Class	Subclass
Switchboard	361	364*
Telephone	379	440
Thermometer indicating tube	374	174*
Tiltable receptacle convertible support	248	135
Tire	152	151*
Armored	152	196*
Armored antiskid	152	169
Cushion and pneumatic combined	152	155*
Cushion enclosed core	152	310*
Pneumatic	152	450*
Vehicle stove air	237	30
Well	166	242
Wheel hub reinforcing	301	106*
Cask (See Barrel)		
Drum or	D34	39
Making machines	147	1
Pitching	118	
Tilting apparatus	248	133*
Casket	27	2*
Carriers	27	27
Design	D99	1*
Grave rest	27	26
Locks	70	63
Lowering devices	27	32*
Portable casings for caskets	27	35
Casserole (See Vessel)	215	
Design	D 7	538*
Cassettes		
Camera	354	275*
Film and plates	206	455
Design	D14	121
Recorder	D14	164*
Rolls	206	387
X ray	378	182
Cast Iron		
Alloys	420	13*
Heat treated stock	148	400
Heat treatment	148	138*
Caster		
Brake	188	1.12
Design	D 8	375
Condiment	D 7	590*
Glass or cup	211	74*
Wheel type	16	18R*
Casting		
Battery electrodes	164	
Coating combined	29	527.3
Fishing	43	18.1*
Forging combined	29	34R*
Methods	29	527.5
Glass	65	
Marine structure in situ	405	222*
Metal	164	
Continuous	164	418*
Die	29	DIG. 1
Digest	29	DIG. 5
Founding	164	
Centrifugal apparatus	164	286*
Centrifugal processes	164	114*
Heat treatment combined	148	3
Joining articles together	164	91*
Rheo-casting	164	900*
Working combined	29	527.5*
Pile in situ	405	232*
Plastics, apparatus	425	256
Metal working combined	29	527.1
Molds, dynamic	425	
Sound records	425	406*
Plastics, processes	264	299*
Centrifugal	264	310*
Sound records	264	106*
Pottery machines	425	263*
Pottery machines	425	459
Tunnel lining in situ	405	150*
Type	199	
Castoff		
Garment supporter	2	342
Sewing machine thread	112	56
Castor Oil	260	398*
Dehydrating	260	405.5
Castrating Instrument	606	135*
Cat Whisker	357	
Catafalque	27	1
Catalin T M (phenoplast)	528	129
Catalysts	502	100*
Combustion products generator with	60	723
Enzyme containing	435	183*
Fermenting processes using	435	41*
For wave energy process	522	6*
Plant	71	65*
Polymerization using transition metal (See also synthetic resin or natural rubber)	526	906*
Comminution of	526	906*
In presence of hydrocarbon	526	905*
Monomer		
Hydrocarbon additive affects polymer properties	526	903*
In bulk	526	902*
In vapor state	526	901*
Part supported on polymer	526	904*
Specified means of reacting components	526	907*
Vapor phase in absence of transition metal	526	913*
Redox catalyst	526	915*
Regeneration	502	20*
Mineral oil conversion combined	208	
Specified particle size	526	908*
Ziegler-natta	526	159*
Catalytic		
Apparatus	422	177*
Device making	29	890
Igniting device	431	268
Mineral oil conversion with	208	46*
Solids contacting	208	146*
Catamenial Receptor	604	358*
Adhesive fastener for	604	387
Cataplasmic Medicament Depositor	604	304*
Catapult	124	
Aircraft combined	244	63
Catch (See Associated Device)		
Basin		
Dispenser type drip	222	108*
Dispenser type inverted container	141	364
Fountain type	239	28*
Sewage type	210	532.1*
Door and window	292	
Dumping vehicles land type	298	38
Holder for fish	43	55
Catcher (See Drip, Catcher)		
Aerial projectile projector and	273	318*
Animal husbandry	119	151*
Band saw machine	83	814*
Body	182	137*
Dispenser waste	222	108*
Fish automatic	43	15*
Harvester		
Cornstalk chopper	56	61
Cornstalk motor type with chopper	56	16.6
Cornstalk topper	56	56*
Cutter and endless carrier with discharging	56	184
Cutter with detachable	56	5
Cutting combined	56	202*
Cutting reel combined	56	199*
Dump rake and cutter combined	56	166
Fruit	56	329
Shelled grain	56	207
Insect	43	133*
Inverted container drainage	141	364
Railway droppings	104	133
Stove and furnace soot	126	280
Traps	43	58*
Fish	43	100*
Insect adhesive type	43	114*
Vehicle brakes on track type	188	63
Catenary		
Trolley wire supports	191	41
Cataract Correction Lenses	351	167
Caterpillar T.m. Track (See Track)		
Cathanode	313	305
Cathartic Composition	424	
Cathead		
Automatic	254	373
Drum	242	117
Catheter		
Milker	119	14.19*
Surgical	604	96*
Couplings	604	280*
Design	D24	54
Flexible	604	280*
Genital	604	264*
Inflatable	604	96*
Intravenous	604	53
Manipulative	604	53
Cathode		
Arc lamp	313	326*
Electrolytic	204	280*
Electronic tube eg radio tube	313	346R*
Forms for galvanic apparatus	204	280*
Gas or vapor lamp	313	326*
Making for discharge device	445	46*
With assembly	445	35*
Ray tube		
Circuit blanking	315	384
Facsimile systems	358	485*
Focus coil and	313	442
Focus coil per se	335	213*
Image pick-up tube	313	365*
Manufacturing	445	36*
By photography	430	23*
Music application	84	DIG. 6
Oscillographs	346	110R
Oscilloscopes	324	121R
Repair	445	2
Screen	313	461
Used in teaching	434	307
Used in teaching	434	323
Storage	313	391*
Structure	313	364*
Symbol generation on screen	340	720
Systems	315	1*
Television receiver	358	188
Television scanner	358	199*
Television systems	358	83*
Television transmitter	358	186*
Work holder for	269	908*
Sputtering		
Apparatus	204	298.1*
Processes	204	192.1*
Catnip Ball	119	29.5
Catsup	426	615
Cattle Guard		
Fences	256	14*
Track type automatic return gate	49	133*
Caulking Gun	D 8	14.1
Caustic		
Alkalis	423	641
Cauter		
Electric	219	232*
Electric	219	236
Liquid or gaseous fuel	126	405*
Surgical combined	606	44
Cava	52	169.1*
Caviar	426	643
Canned	426	131
Cavity Resonator	333	227
In cathode ray tube	315	5*
In electronic tube	315	39*
Magnetron	315	39.51*
Spectrometer electrical	324	316*
Ceiling	52	
Block	439	450
Article supported from	52	39
Quick detachable	439	450
Cargo ship	114	76
Spaced roof	52	22
Suspended	52	484*
Waffle type	52	337
Lights	362	147*
Wood buildings		
Centerpieces	52	311
Celcon (resin from Trioxane and Ethylene Oxide)	528	250
Celery		
Blanching	47	3
Harvesters	171	21*
Planters	111	100*
Salt	426	638
Celeste	84	DIG. 4
Organ stops	84	371
Cell		
Acetylene gas generator	48	
Airship gas	244	128
Box or receptacle		
Making, paper	493	90
Metallic	220	507
Paperboard	229	120.2*
Wooden	217	18*
Cartridge belt block	224	239
Dry	429	163*
Electric	429	
Chemical	429	
Photo	136	243
Railway rolling stock systems	105	51
Thermo	136	200*
Electrolytic	204	194*
Circuit interruption type	361	435
Testing	204	400*
Galanic, gas type	429	12*

	Class	Subclass
Jail	52	106
Leaching or diffusing	127	7
Photo electric	136	243*
Queen bee	449	8
Storage battery	429	149*
Support for removable cell	429	96*
Cellar	52	169.1*
Cello (See Violin)	84	274
Cellophane		
Compositions	106	168
Making article from	493	
Cellosolve T M	568	678
Cellular (See Porous)		
Glass body making	65	22
Glass composition	501	39
Laminate	428	304.4*
Forming by spaced sealing	156	290*
Magazine type		
Cabinet	312	97.1
Dispenser	221	69
Plant or animal material, polymer ctg or derived from (See synthetic resin or natural rubber)		
Polymer (See also synthetic resin or natural rubber)	521	134
Spring mattresses	5	475*
Cellulaid T M	106	169*
Cellulose and Derivatives	536	56*
Compositions	106	163.1*
Esters	536	58*
Compositions	106	169*
Ethers	536	84*
Compositions	106	169*
Fermentation of	435	179
Fermentative treatment	435	277*
Hydrolysis to sugars	127	37
Liberation	162	1*
Nitrogen containing	536	30*
Cement (See Adhesive)		
Aluminous cement	106	692
Clinker	106	739*
Clinker	106	739*
Compositions containing	106	638*
Refractory	501	124
Cycle tire	106	33
Earth treatment with	405	266*
Injector	405	269
Magnesia sorel	106	685*
Manufacturing processes	106	739*
Portland roman	106	713*
Roads	404	17*
Making	404	72*
Sheet structure	404	17*
Shoe sole attached by	36	19.5
Cementing		
Implements	15	235.4*
Lining and coating pipes	118	105
Lining and coating pipes	118	125
Lining and coating pipes	118	404*
Lining and coating pipes	425	110*
Lining and coating pipes	425	460
Shoe making	118	410*
Well cementing processes	166	285*
Center		
Drilling work support	408	72R*
Gauge	33	670*
Lathe centers	82	151*
Making in work for mounting	408	199*
Milling tail stock	409	242
Woodworking lathe	142	53
Center of Gravity Measuring	73	65
Center Punch	30	366
Locating	33	670*
Sheets or bars	30	366
Centerboard	114	127*
Centerers	82	170
Centering Devices		
Aligning tool	29	271*
Circular saw on work holder	76	79
Locating	82	170
Mold for arch or tunnel		
Repositioning means for progressive molding	425	63
Using subterranean feature	425	59
With vehicle to move apparatus	425	62
Slide in cylinder	175	325
Well casing type	166	241
Centerless Grinding	51	103R
Propelling work through	51	74R*
Work rest for	51	238R
Central Heating Systems	237	13
Centrifugal Force		
Assorting	209	642
Brake systems fluid	384	168
Brakes	188	180*
Fishing reel	242	287
Centrifugally operated devices		
Abrading tools	51	332*
Bearings	384	135*
Bobbin winding	242	46.5
Cable drum drive or brake	254	267
Fuse arming	102	237*
Governor (See governor)		
Light support	362	384
Lubricator force feed	184	43
Lubricator gravity feed	184	77
Pipe and tube cleaners	15	104.14
Switch	200	80R
Classifying by fluid suspension	209	148
Clutches	192	103R*
Comminution apparatus	241	275
Comminution process	241	5
Conveyers and feeders		
Feeder	209	915*
Pneumatic	406	100*
Structure, rotary	198	803.1
Structure, thrower	198	638
Dispensing	222	410*
Drying apparatus	34	58*
Drying process	34	8
Film formers or spreaders		
Coating machine	118	56
Coating process	427	240
Evaporators	159	6.1
Fluid treatment cleaning and washing textile fibers yarns	68	147*
Forming or casting		
Liquid comminuting	425	6*
Liquid comminuting	425	425
Metal apparatus	164	286*
Metal process	164	114*
Molding apparatus	425	425
Process	264	310*
Pulp	162	384*
Sugar crystals	127	19
Grain hullers	99	519
Gun	124	4*
Lubricators	184	70
Meter fluid flow	73	861.29
Mufflers and sound filters	181	274
Nut crackers	99	571
Pumps		
Gas rotary	415	
Gas screw combined	415	143
Liquid rotary	415	203*
Material agitating	366	263*
Scatterers or sprayers		
Fluid sprayer	239	214*
Fuel burners	239	214*
Gas and liquid contact	261	83*
Rotary	239	681*
Spray fluid actuated	239	381
Separating colloids	252	349
Separator (See separators and separating, centrifugal)		
Spinning apparatus	57	76*
Centrifuge	D24	22
Centripetal Apparatus		
Dispenser rotary central discharge	222	411
Extractors with inward flow	210	360.2*
Pumps rotary	415	120*
Cephaeline	546	96
Cephalosporin	540	215*
In drug	514	200*
Cephoranthrine	546	31
Ceramics		
Compositions	501	1*
Fluxes	106	313
Firing apparatus	432	
Firing processes	264	56*
Forming and molding	425	
Uniting combined	264	241
Cerates	424	
Cereals	426	618*
Apparatus	99	
Comminution	241	6*
Design	D 1	
Preservation	426	321*
Puffing, processing	99	323.4*
Ceremonial Robe	D 2	79
Ceresin	208	24*
Cerium		
Alloys	420	416
Inorganic compounds	423	
Recovery	423	21.1*
Pyrometallurgy	75	610
Cermet	75	230*
Certificate		
Design	D19	9
Of deposit	D19	9
Cesium		
Compounds	23	
Preparation	75	745
Pyrometallurgy	75	589
Radioactive compositions	252	625
Cesspool	210	542
Sewage purifying	210	532.1*
Cevadine	546	34
Chafe		
Guard positioned between artice and bearer	224	907*
Prevention on trawling net	43	9.9
Chafe Iron Vehicle	280	161*
Chafing Dish	D 7	355
Chain	59	78*
Bracelets	63	4
Cable stoppers	114	200
Chain saw machines	83	788*
Mining	299	29*
Saw element	83	830*
Design	D 8	499*
Ornamental	D11	13
Door fastener	292	264
End holders	24	116R
Endless chain coupling	464	49
Endless chain pumps	415	5
Endless earth boring tool	175	89*
Fabrics	245	4
Flexible shafts	464	
General purpose	D 8	499*
Grates	110	269*
Jewelry attachments	63	21*
Design	D11	13
Key ring	70	457
Link formation by soldering	72	192
Lubricators	184	15.1*
Making	59	1*
Molds for chains	249	57
Ornamental	59	80*
Design	D11	13
Propellers	416	7*
Marine type	440	95*
Reaction, nuclear	376	
Skid chains	152	231*
Applying tool	81	15.8
Design	D12	154
Sprocket	474	152*
Bicycle	D12	123
Design	D15	148*
Guards	474	144*
Stirrer, chain-type	366	607*
Stitch sewing machine	112	197
Tire	152	208*
Design	D12	154
Traction railways	104	172.1*
Warp threads	28	175*
Watch chain snap hooks	24	905
Welding	59	31*
Electric	219	51
Wheel combined for traction	301	42
Wood mortising cutter	144	72*
Chain Saw	30	381*
Chair	297	
Baggage convertible to	190	8
Barbers	297	68*
Design	D 6	334*
Bath	4	578
Cabinet combined	312	235.2*
Chair lift	D12	52
Chaisse lounge	D 6	360
Design, seat	D 6	334*
Doll or toy	446	482
Dry closet	4	465
Elevator landing	187	75*
Exercising	272	144
Fan combined	416	146R
Folding	297	16*
Folding vehicle occupant seated	280	650
Kinesitherapy	128	33*
Ladders	182	33
Light thermal or electrical application	128	376*
Locks	70	261
Milking stool type	297	175*
Pedestal design	D 6	364

	Class	Subclass
Railway car type making	29	16
Railway surface track	238	187+
Concrete pedestal bar	238	116
Crossings	246	467
Insulated rail joint	238	154+
Reversible rail or english type	238	266
Switches	246	453
Two rail	238	20
Rebar	52	677+
Reclining	297	68+
Road	404	136
Round making	144	8
Self leveling	114	194
Theater seat	297	311+
Wheel chair	280	647
Chair Lift Design	D12	52
Chaise Lounge	D 6	360
Chalk		
Chalkboard cleaning, chalk or chalkdust holder	434	417
Composition	106	19
Card	33	414
Cue chalkers	273	17+
Holder	401	88+
Chamber (See Process, Machine or Device with which Associated)		
Automatic weighers	177	60+
Chemical apparatus	422	
Elements or details	422	310
Cleaning and liquid contact with solids	134	
Closet	4	300+
Disinfecting	4	222+
Concentrating evaporator	159	12
Closed	159	22+
Dissolver-mixer sprayer	239	267+
Distilling	202	
Drying and gas or vapor contact with solids	34	
Internal resistance brake	188	266+
Liquid separation or purification	210	
Motor		
Expansible chamber type	91	
Mufflers and sound filters	181	212+
Musical instrument		
Piano	84	24+
Pipe organ	84	331+
Reed organ	84	351+
Pipe or tube pressure compensator	138	30
Pneumatic conveyor	406	
Pot type	4	479+
Preserving, disinfecting, and sterilizing	422	243+
Pumps	417	
Expansible chamber type	417	437+
Pressure compensator	417	540+
Rotary	418	
Resilient tire	152	
Steaming textiles	68	5C+
Submarine dredger	37	56
Therapeutic treatment with medicaments	128	202.12
Tobacco smoke treating	131	211+
Volume or rate of flow meter	73	861+
Expansible chamber type	73	232+
Chambray	139	416
Cord stripe	139	417
Chamfer		
Barrel chamfering machines	147	13+
Barrel closure	217	80
Bench planes for chamfering wood	30	484+
Coopering tools for chamfering	147	42
Gear chamfering machines	409	8
Chamois	8	94.1 R+
Chance and Game Apparatus		
Baseball	273	93R
Board games	273	243+
Chance devices	273	138R+
Check connector reciprocating	194	293+
Check connector turning	194	295+
Check lock releasing	194	247+
Guns mechanical	124	33
Chandelier	362	405+
Design	D26	72
Hanger	362	406+
Change		
Bag for photographers	354	308+
Auxiliary plate magazine	354	282
Coin machines	D20	1+
Gate	232	14
Maker	453	1+
Changeable Exhibitor		
Amusement cards and pictures	446	147+
Card picture and sign	40	446+
Electric annunciators	340	815.1+
Systems	340	286.11+
Figure toys, features change	446	321
Illuminated	362	253
Indicator combined	116	307
Information displaying	40	446
With sound	40	455
Channel		
Ditch	405	118
Lining	405	268
Electric signals	340	
High frequency	333	
Radio	455	
Telegraph	178	
Telephone	379	
Fishway	405	81+
For electric conductor	174	68.3+
Glass conditioning	65	346
Guide	112	50
Iron structural members	52	720
Navigable	405	84+
Preserving channel for water control	405	21+
Rail and tie		
Flange down railroad ties	238	59+
Flange up railroad ties	238	62+
Rail joints splice bars in	238	161
Railroad rails	238	127
Railroad rails joints	238	176
Two part railroad ties	238	56
Stock	428	122
Metallic	428	595
Type holding; printing	276	37
Channeling Machine and Tool		
Ditcher	37	80R+
Mining	299	
Endless flexible cutter	299	82+
Machine	299	29+
Rotary cutter	299	79+
Sewing leather	112	45
Shoe sole	12	27+
Shoe sole combined with trimming	12	85.2
Chaplet	164	398+
Character Recognition		
Computer means	382	
Radiant energy, optical or pre-photocell system	382	58
Characters		
Calendar slide	40	109
Interchangeable sign	40	618
Markers for calendar	40	110
Printing	101	
Sensing	382	
Controlling display	340	806+
Controlling punch	234	59+
Operating typewriter	400	61+
Photoelectric	382	65
Television		
Telegraphic printing system	178	30
Type casting	199	
Charcoal		
Absorbents containing	502	416+
Briquettes	44	591+
Broilers	99	385+
Design	D13	100
Production by distillation	201	
Stoves	126	25R
Charge		
Dispensing	222	
Explosive		
Ammunition making and	86	
Ordnance pneumatic combined	89	7
Forming		
Fuel injection	123	445+
Internal combustion	123	434+
Internal combustion combined generating	123	3
Charge Transfer Device		
Computers	364	862
Delay line	307	607
Logic circuit	307	444
Memory	365	183
Shift register	377	57
Structure	357	24
Wave transmission lines	333	165
Charger and Charging		
Arc furnace device	373	60
Arc between spaced electrodes	373	62+
Charging or discharging	373	79+
Battery	320	2+
Design	D13	107+
Bin or tank	414	288+
Electric furnace	373	
Glass furnace device	373	33+
Induction furnace device	373	142+
Resistance furnace device	373	115
Electrophotographic copier development	355	261+
Filters, liquid	210	456
Precoat adding means	210	193
For capacitor	320	1
For capacitor	307	109+
For nuclear dosimeter	320	1
For nuclear reactor	376	264
For pocket chamber nuclear	320	1
Furnace type	414	147+
Heating	110	101R+
Metallurgical	266	176+
Gas generators	48	86R
Lamp bulb		
Gas	141	66
Gas combined	445	
Latent image formation	355	216+
Liquid purification	210	519+
Means to add treating material		198.1+
Tangential	210	512.1
Magazine	42	87+
Metal under pressure	164	303
Molding apparatus for nonmetals	425	542+
Block	425	258+
Glass	65	
Nuclear reactor	414	146
Pneumatic motor railway	104	157+
Receptacles	141	
Portable	141	
Refrigeration apparatus	62	292
Process	62	77
Ship	414	137.1
Still	202	262+
Closure combined	202	251
Processes	201	40
Transfer of image (latent)	355	217
Transfer of image (toned)	355	271+
Charlotte Russe	426	658+
Charm	63	23
Jewelry	D11	79+
Charpy Test	73	844
Charring (See Carbonizing)		
Chart		
Apparel layout	33	12+
Astrological	434	106+
Astronomical	434	284
Color display	434	98+
Educational	434	430
Holder for map or chart	40	904*
Light ray type	33	268
Menstruation	40	109
Music	84	471R+
Recorder	D10	46
Chase		
Gem setting	63	26+
Printing	101	391
Bed and platen shifting	101	63+
Securing or mounting means	101	390
Chasers	408	215+
Type setting	276	38+
Chasing Mill	241	107+
Ball type		
Frictional drive	241	103+
Loose ball	241	173+
Chassis		
Amplifier	330	65+
Electrical devices	361	380+
Radio parts type	361	422
Radio system	455	347+
Television	358	254+
Vehicle	280	781+
Occupant propelled type	280	281.1+
Chatelaine		
Bag case or frame carrier	224	268
Safety hooks	24	4
Check		
Bank	283	58
Design	D19	11
Cash registers		
Check employing or controlled	235	17+
Printing checks	235	3
Coin type	40	27.5
Controlled apparatus	194	
Cash registers	235	3

	Class	Subclass
Cereal puffer	99	323.8
Dispensers	222	2
Lock releasing slots	194	247+
Motion picture machine	352	104
Self photograph	354	76+
Telephone systems	379	143+
Voting machines	235	53
Weighers	177	125
Workmens time recorder	346	
Door	16	82+
Closer combined	16	49+
Design	D 8	330+
Gun breach gas	89	26
Gun recoil	89	42.1+
Harness underchecks	54	57
Labels tags and	283	81
Labels, tags, design	D20	22+
Pay check with statement of deductions	282	DIG. 1
Protectors		
Embossing	101	24
Fraud preventing coating	427	7
Writer machines	D18	5
Check-out Counter	186	59+
Checkbook Cover Design	D19	26+
Checker Brick	165	9.1+
Checkers	D21	53
Game board design	D21	24
Checkhooks	54	61+
Checking and Unchecking Device	54	70
Underchecks	54	57
Checking Watermarks	356	432+
Checkout Counter	D 6	396+
Checkreins	54	16+
Cheek Plate Railway Draft	213	54+
Cheese		
Compositions and processes	426	582+
Cutter	83	
Cutter and expresser	425	308
Design	D 1	
Making apparatus	99	452+
Packaging	426	392+
Preservation	426	330.2
Presses	100	
Textile		
Fluid treatment	8	155.2
Packages	242	159+
Treating apparatus	99	452+
Cheesecloth	139	426R
Chelate		
Aluminum containing	556	175
Chelation ion exchange	423	DIG. 14
Detergents having agent	252	DIG. 11
Drug compositions	424	DIG. 6
Food or edible material	426	271
Heavy metals containing	556	1+
Printing dye with metal chelating group	8	452
Tobacco smoke separator or treater	131	334
Chelidamic Acid	546	299
Chemical Modification, Protein	530	402
Chemical Reaction Heat Producers		
Irreversible reaction	44	250+
Readily reversible reaction	252	70
Chemiluminescent	252	700
Lighting	362	34
Tests involving	436	172*
Chemistry & Chemical (See Particular Compound, Composition, or Art)	422	
Analytical and analytical control methods	436	43+
Apparatus	422	44+
Carbon compounds	260	
Carbon compounds	560	
Chemical composition		
Crosslinking	252	183.11+
Curing	252	182.11+
Hardening	252	182.11+
Interactive	252	182.11+
Non-interactive	252	182.11+
Vulcanizing	252	182.11+
Chemical manufacture, misc.	156	
Chemical oxygen demand tests, cod	436	62*
Chemical symbol character	400	900*
Classifying, separating, & assorting solids	209	
Cleaning & liquid contact with solids	134	1+
Apparatus	134	42+
Coating apparatus	118	
Coating processes	427	
Printing	101	
Cooling by chemical reaction	62	4
Distillation		
Apparatus	202	
Separatory processes	203	
Thermolytic processes	201	
Dyestuffs	8	
Electrical current producing apparatus, product & process	429	
Electrical radiant or wave energy	204	
Fermentation	435	
Fertilizers	71	
Foodstuffs	99	
Inorganic	423	
Measuring instrument	D10	81
Metallurgical	75	
Reactions	376	
Modification of synthetic resins or natural rubbers	525	
Modification of textiles & fibers	8	115.51+
Fluid treating apparatus	68	
Manipulative fluid treatment	8	147+
Photographic chemistry, processes & products	430	
Physical processes	23	293R+
Refrigeration	62	4
Sterilizers, refrigeration combined	62	78
Synthetic resins (See synthetic resin or natural rubber)	520	1+
Teaching	434	298
Chemotherapy Drugs		
5-fluorouracil	544	313
Chendeoxycholic Acid	552	551
Chenille	223	45
Misc. manufacture	28	144
Spinning twisting twining		
Apparatus	57	24
Strand structure	57	203
Tufting sewing machine	112	80.1+
Woven pile fabrics	139	393+
Strands	139	395
Cherry Seeder	30	113.1+
Chess Pieces	D21	52
Chest (See Box)		
Cedar	206	278.1
Medicine	206	828*
Protector	2	92
Tool	206	349+
Wind	84	54
Woodworking tool and workbench combined	144	285
Chest of Drawers	D 6	432
Cheviot	26	19+
Chevron	2	246
Badge	40	1.5+
Chewing Gum	426	3+
Package	206	800*
Tobacco combined	131	347+
Chicken (See Fowl)		
Chiffon, Foamable Edible Material	426	571
Chiffoniers, Trunks	190	19
Childproof Bottle Closures	215	201+
Chilean Type Mill	241	107+
Chill		
Brake shoes	188	260
Fastener bedstead	5	289
Metal founding	164	371+
Chilling iron processes	164	127
Consumable	164	357
Patterns chill supporting	164	230
Sand mold or core having	164	352+
Static mold having	249	111
Chime		
Bells	84	406+
Clocks	368	273
Electric	340	392+
Musical	84	402+
Design	D17	22
Electric tone type	84	600+
Signal	116	141
Chimney		
Building flue heaters	98	46
Cap, masonry	52	244
Cap, ventilating	98	67
Cleaning	134	1+
Sweep or brush	15	162+
Lamp chimney lantern	362	180
Chimney element	362	312+
Chimney element design	D26	118
Masonry smoke flue	52	245+
Static mold for making	249	17
Ventilation	98	58+
Design	D23	374
Chin		
Rest		
Firearm stocks	42	71.1+
Violin	84	279
Violin combined with support	84	278
Strap		
Hats	132	58
Surgical	128	164
Support		
Corpse	27	25.1
Surgical	128	164
China Oil	260	398+
Compositions	106	244+
Synthetic resin or natural rubber ctg (See synthetic resin or natural rubber)		
Chinaware	D 7	500+
Display stand	D 6	512+
Vase	D11	143
Chintz	139	426R
Chip		
Breaker	144	243+
Cutting tool with	407	2+
Cutting	83	906*
Making		
Comminuting type	241	83+
Slicer type	144	162R+
Poker	40	27.5
Design	D21	53
Chiropody		
Bandages	128	157
Kinesitherapy	128	33
Pedicuring instrument	132	73+
Shields	128	882
Chisel		
Cold	30	168
Design	D 8	47
Dovetail	144	88
Mortising	144	67+
Sawtooth cutting machine	76	28
Stoneworking	125	41
Tenoning	144	202
Wood turning	142	42+
Pattern guide combined	142	21
Woodworking implement	30	167+
Chitin	423	413
Chloracetic Acid	562	602
Chloral	568	495+
Hydrate	568	844
Chloramine	423	383
Chloramphenicol	564	213
Chloranil	552	308
Chlorate	423	475
Electrolytic synthesis	204	95
Per compounds	204	82+
Oxidizing compositions	252	186.1+
Chlorazene Chloramine T	562	837
Chlorhydrins	568	841+
Hydrolysis of	568	859
Chloride		
Binary halides inorganic	423	462
Biocides containing	424	
Dissolver, sodium chloride & potassium chloride	422	902*
Halocarbons	570	101+
Hydrochloric acid	423	481+
Organic acid halides	562	800+
Oxidizing compositions	252	186.1
Salts inorganic	423	462+
Sulfur	423	462
Chlorination		
Hydrocarbon	570	101+
Water purification	210	198.1+
Processes	210	754+
Chlorine	423	500
Biocides containing	424	661
Bleaching with	8	101+
Electrolytic	204	133
Electrolytic synthesis	204	128
Feeder	137	87+
Chlorine Di, -monoxide Oxidizing Composition	252	187.21
Chlorocarbonic Acid Esters	558	280+
Chloroform	570	181
Preparation from acyclic halides	570	101+
Chlorophenols	568	774+
Chlorophyll	540	145
Chloroprene	570	189
Preparation	570	216
Solid polymers (See synthetic resin		

	Class	Subclass
or natural rubber)		
Chlorpheniramine, in Drug	514	357
Chuck		
Boat supports	114	381
Design	D12	217
Railway car steps	104	257*
Brake type	188	36*
Ship spar	114	101
Vehicle fender combined	293	7
Wheel on ground	188	32
Chocolate	426	631*
Confectionary containing	426	631*
Molding	425	
Refiner	241	
Choke		
Coil	336	
Firearm barrel	42	79
Input filter	333	181
Plug	184	52
Tube		
Having plurality of leaves	261	DIG. 58
Interchangeable	261	DIG. 57
Leaves flexible	261	DIG. 59
Longitudinally reciprocating along air passage	261	DIG. 61
Having movable parts	261	DIG. 62
Suction operated	261	DIG. 64
Throttle-operated	261	DIG. 63
Cholanic Acid	552	548
Cholecalciferol	552	653
Cholecalciferol, in Drug	514	167
Cholesterol Compounds	552	544*
Cholesterol, lipids, triglycerides	436	71*
Cholic Acid	552	549
Choline	564	293
Choline Acetate	560	253
Chopper		
Cornstalk type	56	60*
Cotton chopper plow	172	
Chopper heads	172	518*
DC to AC	363	124*
Food	241	
Block or board	269	289R*
Meat tenderer	17	31
Stalk	56	500*
Chopping		
Blocks and boards	269	289R*
Chord		
Played by single key of keyboard	84	443*
Selector for zithers	84	286*
Christmas Tree		
Candle holders	431	296
Container or wrapper for	493	956*
Decorative lights	362	249*
Design	D11	118*
Design	D11	118
Holder	248	511*
Design	D11	130.1
Fluorescent	250	462.1
Imitation	428	7*
Lamps	D26	25*
Light string	D26	25
Ornaments	428	7*
Design	D29	1
Series lamp system	315	185R*
Chromanes	549	398*
Chromate Processes		
Metal coating	148	264*
Photographic	430	289
Chromatography	73	19.2*
Gas separation	55	386
Gas content of liquid or solid	73	19.2*
Process	55	67
Testing	73	23.35*
Hydrocarbon purification by	585	825
Liquid	210	656*
Gel or liquid-liquid	210	635
Testing	73	61.1 C
Physical recovery methods	435	803*
Testing of gas content	73	19.1
Chromium		
Alloys (non-ferrous)	420	428
Alum	423	544*
Chromates	423	592*
Electrolytic synthesis	204	89
Ferro	420	34*
Organic compounds	556	57*
Oxid pigments	106	453*
Oxides and hydroxides	423	607
Electrolytic synthesis	204	97
Plating		
Electrolytic	204	51
Electrolytic plural layers	204	41
Metal stock	428	666
Pyrometallurgy	75	623
Electrolytic	204	105R
Chromoscopes		
Color picture viewer	350	174
Colorimeter	356	402*
Chromosome Multiplication, Cross-breeding	47	DIG. 1
Chronograph		
Electrical or electronic	368	114
With speed determination	324	178*
Recorder	346	
Watches	368	101
Chronometer		
Structure	368	62*
Testing	73	6
Chronoscope		
Electric	368	107
Chrysanthemic Acid, in Drug	514	572
Annular for wood turning	142	52
Counterpoised	142	51
Electromagnetic holders	335	289*
Hollow mandrel guide	142	54
Key	81	16
Nailing machine	227	149
Chuck (See Socket)	279	
Church Bell	116	148*
Electrically simulated	340	398
Churn	366	
Agitator type	366	
Butterworker combined	99	452*
Design	D 7	371
Chute (See Conveyer)	193	
Amusement railway	104	69
Assorting		
Gaseous suspension	209	149
Gauging apertures	209	682
Household sifting bin	209	375
Liquid suspension reciprocating	209	196
Liquid suspension stationary	209	202
Manual	209	702*
Railing incline	209	69
Billiard rack, pocket and	273	11R
Cabinet		
Showcase type	312	124
Stock and sample	312	121
Can making machine body feeding	413	70*
Card magazine	312	60
Conveyer having gravity section	198	523*
Deposit and collection receptacle	232	44*
Dumping vehicle	298	7
Fire escape	182	48*
Fruit gatherer	56	328.1*
Furnace fuel feeder	110	116*
Fixed detaching member	56	340
Pole type pivoted jaw	56	334
Pole type pivoted knife	56	336
Hopper RR car bridge for side	105	252
Hopper RR car center	105	249
Mortar mixing discharging	366	68
Nail etc feeder inclined	10	165
Planter vibrating	111	76
Plural destination conveyor &	198	359
Showcase	312	124
Stock and sample	312	121
Spindle lathe automatic feed	142	20
Stratifiers liquid treatment	209	458
Reciprocating	209	437*
Reciprocating rotating	209	435*
Rotating	209	444
Spiral	209	434
Stratifiers movable bed	209	479*
Stratifiers pneumatic treatment	209	477
Movable bed	209	471*
Textile liquid treating receptacle conditioning	68	178
Pleating in receptacle	68	177
Typesetting converging	276	20*
Vehicle body endgate combined	296	61
Wooden silo	52	195
Cibanite T M (aminoplast)	528	230
Cigar and Cigarette	131	
Ashtray	D27	102*
Bands for	D20	22*
Case	206	242*
Combination	206	236*
Design	D27	186*
Cutter	30	109*
Appliance combined	131	248*
Cigarette case combined	206	238*
Design	D27	195
End cutter	83	
Machine	83	931*
Design	D27	101*
Extinguisher	131	256
Filter end	131	331*
Filter for	131	331*
Ash tray combined	131	234
Cigarette case combined	206	236*
Dispensing case combined	206	236*
Electric heating coil	219	260*
End cutter combined	131	249
Magazine cigarette dispenser combined	221	136*
Matches	44	507*
Part of cigar or cigarette	131	351
Smoking device combined	131	185
Holder	206	242
Design	D27	183*
Lighter	D27	141*
Liquid gas cartridge for	D23	202
Machines	D20	1*
Magazine type cabinet	312	72*
Making	131	280*
Turning cigarettes end for end	198	952*
Packages	206	242*
Manufacturers container	493	910*
Matches combined	206	85*
Packaging	53	148*
Papers container	206	237
Pocket lighter		
Butane	431	130*
Butane	431	254
Catalytic	431	147
Frictional, chemical, percussive	431	267*
With cover	431	144*
With cover	431	129*
Protective cover for packs	D27	186*
Smokers tools	D27	194*
Snuffer	D27	136
Vending machine	221	
Coin operated	194	
Design	D20	1*
With igniting means	221	136*
Cinchona Alkaloids	546	134*
Cinchonine	546	134
Cinchophen	546	170
Cine Film	430	934*
Cinema (See Motion Picture)		
Cinematography	D16	
Cineol	549	397
Cinerary Urns	27	1
Circuit (See System, Electric)		
Applications, battery	136	293*
Breaker	335	6*
Design	D13	160
System	361	1*
Closer	200	
Annunciator	340	815.28
Arc lamp having	314	131
Arc lamp shunt closing or cut out	314	10*
Changeable exhibiter control	40	463*
Lamp or electronic tube combined with	315	32*
Lamp or electronic tube system	315	362*
Closing apparatus	200	
Controller (See system having)		
Clock electric	368	52
Condenser structure	361	271*
Electronic tube type	328	85*
Flashing light etc	40	902*
Phase regulation	323	212
Regulators	323	
Rheostat or resistance	338	
Switch structure	200	
Transformer	323	355
Trolley conductor section switching	191	16*
Tuners	334	
Interruption		
Electrical systems	307	96*
Electrolytic	361	435
Inverter systems	363	109
Rectifier systems	363	108*
Regulator electrical systems	307	96*
Therapeutic apparatus	128	423R*
Maintenance		
Signal box transmission	340	292
Telegraph lines	178	69R
Maker and breaker	200	

	Class	Subclass
Annunciators	340	815.28
Arc lamp cutout or shunt	314	10*
Arc lamp system	314	131
Check control telephone	379	146*
Electromagnetic switching systems	361	139*
Key telegraph	178	101*
Lamp or electrode tube system	315	362
Motor system	318	
Switchboard details	361	332*
Telegraph manipulating	178	75
Telephone	379	414*
Printed	428	901*
Manufacture including etching	156	901*
On organic base	156	902*
Protector		
Lightning arrester	361	117*
Meter	324	110
Retainer automatic telegraph repeater	178	72
Work holder for electrical circuit	269	903*
Circular		
Knitting machine		
Independent needles	66	8*
United needles	66	79*
Looms	139	457*
Saw		
Dressing and jointing	76	48
Metal sawing	83	594
Wood sawing	83	469*
Circumcision Devices	606	118
Cistern	52	169.1*
Cleaners	15	246.5
Hoisting bucket type	294	68.22*
Molds for	425	59*
Sewage purification	210	532.1*
Citrazinic Acid	546	296
Citral	568	448
Citric Acid	562	584
Citrus Fruit		
Cutters	30	123.5*
Machines	99	539*
Plants	PLT	45
Civetone	568	375
Clack Valve	251	298*
Clamp & Clamping Device (See Clasp, Fastener)	24	455*
Adjustable	403	DIG. 1
Apparel apparatus	269	
Applier		
Hose clamp	81	9.3
Surgical clip	29	243.56
Binder device releasably engaging aperture or notch of sheet	402	
Book or leaf holder	281	45*
Bracket clamped to support	248	225.31*
Bracket with article holding clamp	248	316.1*
Building components	52	584
Anchor or tie	52	698*
Clasp, clip, or support clamp	24	455*
Design	D19	65
Clip board	24	67.3*
Closure fastener	292	256*
Rod clamp type	292	305*
Cord rope and strand anchors	24	115R*
Bridge cable	14	22
Sash cord	16	205
Dental implement	433	153*
Dam	433	138*
Design	D 8	72
Hose	24	19
Appliers	81	9.3
With support	248	75*
Jar lid	D 9	435*
Locked	70	19
Metal deforming apparatus	72	293*
Moderator structure for nuclear reactor	376	458
Paper fastener	24	67R*
Portable	269	
Railway track fastening	238	338*
Saw setting	76	78.1*
Scaffold binders	24	16R*
Shoemakers	12	103
Static mold	249	219.1
Strand tensioning	242	149*
Surgical implement	606	151*
Design	D24	27
Testing strength of specimen with	73	856*
Woodworking	269	
Clamped Work (See Holders)		
Abrading machine	51	217R*
Cutting & punching sheets & bars	83	
Cutting tables	83	451*
Drawcut	83	642*
Drawcut	83	644*
Pivoted cutter	83	597*
Punching or pricking	83	
Reciprocating cutter	83	613*
Table with	83	
Daguerreotype plates	354	2
Engraving	81	4
Fish dressing	17	70
Fowl supporting	17	44.3
Sewing machine presser	112	235*
Shoemaking	12	
Specimen testing by stress or strain application	73	856*
Vegetable and meat cutting	269	
Vises	269	
Pipe or cable	269	
Wire fabric making	140	51
Wood bending	144	269
Wood turning	142	
Woodworking	269	
Machine	144	278R
Clamshell Bucket	294	68.23*
Clappers for Bells (See Bells)		
Clarinet	84	382*
Clasp	24	455*
Clothespin (See clothespin)		
Design	D32	61*
Cuff holder	24	43*
Design apparel	D 2	200*
Fastener combined	24	326*
For nuclear reactor moderator structure	376	304
General purpose	D 8	382*
Jewelry	D11	86*
Pen or pocket	24	11R*
Pen or pencil	D19	41*
Project-retract means associated	401	104*
Utilitarian, garment use	D 2	200*
Classifying Solids	209	
Cutting or comminuting combined		
Apparatus	241	68*
Cereal processes	241	9*
Fluid applying apparatus	241	38*
Gas applying processes	241	19
Liquid applying processes	241	20
Processes	241	24
Vegetable and meat apparatus	99	510
Vegetable and meat processes	426	518*
Dorr type	209	462
Clathrates (See Definition Note (3))	428	402.2
Clavier	84	DIG. 25
Clavulanic Acid	540	349
Claw Bar Lever Nail Extractor	254	25*
Clay		
Acid activated	502	81
Burning in kilns	264	56*
Cleaner	209	
Comminuting combined	241	
Compositions	501	141*
Abrasive	51	308
Adsorbents	502	407*
Catalyst	502	80*
Catalyst carrier	502	439*
Porcelain	501	141*
Refractory	501	94*
Molding and casting	425	
Pigeon	273	362*
Projector	124	6*
Pipe or tube	138	175*
Shaping processes	264	
Firing ware combined	264	60*
Treatment	501	145*
Chemical	501	146*
Cleaner and Cleaning (See Cleaner)		
Abrading file	51	414
Antismut device combined	101	423*
Applicator	15	104R*
Material supply combined (See implements below)	401	
Ash tray combined with cleaning device	131	232
Attachment	15	246*
Curtain or shade	160	11
Electric insulator	174	211
Electrode tip	314	23*
Hand rake	56	400.8*
Harrow teeth	172	90
Liquid level sight glass	73	324
Printing apparatus	101	425
Razor	30	41
Solid material comminuter member	241	166*
Textile knitting apparatus	66	168
Tobacco smoking device	131	184.1
Type casting apparatus	199	62
Typewriting machine	400	701*
Band saw pulley	83	168
Boiler with means for	122	379*
Boot and shoe scrapers	15	237*
Bottle washing machine attachment	15	104.9
Bread and pastry	15	3.11
Bread and pastry	15	3.16
Brushes for, design	D 4	
Brushing scrubbing wiping general cleaning	15	
Burner	431	121
Burner tip	362	458
Button cleaning	51	171
Garment shields	51	265
Carpet	15	3*
Sweeper type	15	41.1*
Cistern	15	246.5
Comb		
Brush machine	15	39
Combined	132	119
Implement	15	104.5*
Combustion means	110	236*
Composition		
Abrasive	51	293*
Detergent	252	89.1*
Flue	44	640
Lubricant combined	252	11
Metal fluxing	148	23*
Soap	252	369*
Soap products	252	368
Conveyor	198	493*
Currycomb	119	88
Design	D30	159
Design	D32	1*
Dispenser	222	148*
Receiver inlet cleaning attachment	141	90
Distillation apparatus carbon removers	202	241
Processes	201	2
Drive belt and chain	474	92
Earth boring means with	175	84
Earth boring tool with	175	313
Electric trolley head	191	62
Electrolysis		
Cleaning or etching	204	129.1*
Coating with cleaning or etching	204	32.1*
Electrophotographic copier	355	296*
Electrostatic	15	1.51*
Engine cylinder	15	104.11
Filter	210	407*
Flue		
Brush and broom	15	162*
Flue attached	15	249
Scraper	15	242*
Fluid handling devices	137	237*
Fluid nozzle	239	106*
Foundry apparatus with	164	158
Fruits		
Processes	426	478*
Fur treatment	69	23*
Gas separator	55	282*
By liquid	55	242*
Electrical precipitator	55	108*
Process	55	96
Ginning saw	19	64
Glass mfg apparatus	65	27
Gun bore	15	104.5*
Cartridge contained	102	442
Gun combined	42	95
Harvesting binder needle cleaner	56	448
Hat cleaning	223	23
Heat exchange apparatus	165	95
Hoof	168	48.1*
Implement	15	104R*
Brush broom or mop with material supply	401	268*
Coated or impregnated with cleaning material	15	104.93*
Container, wrapper for	493	942*
Erasing (See eraser)	15	424*
Material supply combined	401	
Padlike, bladelike or apertured with material supply	401	261*
Porous pad with material supply	401	196*

	Class	Subclass
Stationary and with material supply	15	104.92
Stranded fabric mop or mop head	15	229.1+
With fixed handle	15	229.2+
With pivoted handle	15	229.6+
Intestine	17	43
Liquid contact		
Solids apparatus	134	
Textile apparatus	68	
Textile processes	8	137+
Liquid heaters and vaporizers	122	379+
Water tube heater	122	361
Loom cleaning	139	1C
Machines	15	3+
Lights on	362	91
Marine hull	114	222
Metal working with (See metal debris)	29	DIG. 7
Cutter engaging cleaner	29	DIG. 97
Rotating, reciprocating, or oscillating cleaner	29	DIG. 98
Nozzle	239	106+
Oil vaporizing apparatus carbon removers	196	122
Processes	208	48R
Paper making felt & wire combined	162	274+
Pen	15	423
Piano action combined	84	64
Pipe and tube (See apparatus or process using)		
Brushing machines	15	88
Implements	15	104.3+
Liquid contacting apparatus	134	166R+
Processes	134	1+
Tobacco smokers	131	243+
Piston ring groove	15	104.12
Railway		
Snowplows	37	214+
Switch point	246	444
Track	104	279+
Track sweepers	15	54+
Receptacle		
Brush and broom implement	15	164+
Brushing machines	15	56+
Liquid contacting	134	
Wiper implement	15	211+
Refrigeration apparatus	62	303
Sand blast nozzle combined	291	12
Scale removing from metal	29	
Scouring with abradant	51	16+
Solids cleaning apparatus cleaner combined	34	85
Sound record	15	
Spark plug	15	104.11
Steam boilers	122	379+
Stove flue	126	16
Stratifier	209	487
Street		
Air blast or suction	15	300.1+
Flushers	239	159+
Sweepers	15	78+
Teeth	433	216
Textile fiber working combined	19	262
Roll cleaning	15	256.51
Tobacco smoking device	131	243+
Tobacco treatment		
Fluids or fluent material	131	300+
Leaf	131	325
Stemming and cleaning	131	315+
Tool driving or impacting combined	173	57+
Automatic control	173	3
Track sander delivery pipe	291	42+
Vacuum	15	300.1+
Nozzles	15	415.1+
Processes	134	21
Tool driving motor fluid caused	173	60
Valve	137	244+
Vegetables		
Processes	426	478+
Washing-drying machines	D32	6+
Welding apparatus combined	228	18
Well	166	170+
Processes	166	311+
Screen with washing point or shoe	166	157+
Wheel scraper vehicle attached	280	855+
Wood saw	83	169
Clearance Reduction		
Compressor	92	60.5
Regulator	417	274+
Internal combustion engine	123	48R
Clearer (See Cleaner)		
Diggers potato	171	114+
Fork	294	50+
Harvesters	56	314+
Hat making	223	11
Plows	172	606+
Propeller screw	440	73
Railway track	104	279+
Rakes		
Hand	56	400.8+
Horse drawn	56	395
Roadway snow excavators	37	196+
Sifters	209	379+
Textile machinery		
Drawing roll	19	258+
Loom shuttle	139	261+
Spinning	57	300+
Warp beaming	28	173
Cleat		
Insulator electrical	174	157
Bracket for	248	67.5
Ship	114	218
Shoe sole edge gripping	36	7.7
Shoe spike or	D 2	317
Sliding car door	49	472
Traction for wheels	301	43+
Cleaver	30	308
Clerestory	52	18
Clevis	403	157
Ball socket	403	142
Coupler	403	302
Hoist line		
Insulators	174	207
Links	59	86+
Thill couplings	278	52+
Clew	114	115
Clicker	242	304
Climber		
Mountain climbing aids	248	925
Plants		
Rose	PLT	2+
Vine	PLT	54+
Playground apparatus	D21	242+
Pole post or rope	182	133+
Tire attached surface rail climber	301	90
Toy figure	446	314+
Clincher Rim	152	382+
Clinometer	33	365+
Clip		
Applier	29	243.5+
Surgical	29	243.56
Bottle attachment	215	101
Design		
Apparel	D11	200+
Hair	D28	39+
Jewelry	D11	40+
Paper, pen, pencil	D19	56
Inserters	606	139+
Leaf spring	267	53
Making and joining		
Fabric wire	29	243.56
Spring head	29	172
Wire	140	82+
Nose animal	119	135
Paper	24	455+
Paper fastener	D19	65
Pedal crank combined with shoe type	74	594.6
Pen and pencil	24	10R+
Design	D19	56
Projecting-retract means associated	401	104+
Rafters and	33	DIG. 16
Rail fastenings	238	378
Structural unit fasteners	403	
Surgical	606	151+
Wire fabric	245	3
Clippers		
Clip applying	29	243.5+
Cloth finishing cutters	26	7+
Fur hair removing	69	25
Hair	D28	52+
Hand manipulated cutters	30	
Harvesters	56	
Hat making	223	19
Nails	D28	60+
With hair catching	30	124+
Cloak	2	
Clock	368	62+
Atomic	331	3
Atomic frequency control for	331	3
Cases	224	164+
Clock movement casing	206	18
Design	D10	1+
Cordless electric	310	191
Crystal mounting	29	807
Design	D10	1+
Digital exhibitor	D10	15
Electric motor for	310	162+
Floor standing model	D10	16
Illumination combined	362	23+
Keys	81	122+
Power substitution for electric	307	64
Processes for making	29	177+
Radio	455	344
Radio encased	455	231
Radio or phonograph combined	D14	170+
Radio station selector	334	
Spring assembly	29	228
Staking	29	231+
Supports	248	114+
Testing	73	6
Time clock	D10	41
Transistor operated	318	127
Winding key	D 8	347+
Work control (See time operated and controlled)	368	1
Fuses	102	276
Switch operation	200	35R+
Time locks	70	272+
Clocking Device (See Timers)		
Clod Crusher	172	
Cultivator and roller	172	170+
Harrow and roller	172	170+
Land roller	404	122+
Plow and roller	172	170+
Soil elevator and treater	172	33
With separating after earth working	172	32
Clog, Footwear	D 2	292
Platform heel	D 2	324
Platform sole	D 2	322
Close (See Closer; Closing; Closure)		
Closed Circuit Grinding		
Apparatus	241	80
Fluid applying	241	61
Gas swept grinder	241	52+
Processes	241	24
Cereal	241	10
Gas applying	241	19
Liquid applying	241	20
Closed-die Metal Shaping	72	343+
Forging	72	352+
Closer (See Circuit; Closure; Fly; Operator)		
Door	16	71+
Check combined	16	49+
Design	D 8	330
Fly closer lasting tool	12	113
Paper		
Bag closing	493	186
Box closing	493	52
Slot		
Cable railway	104	194
Lever	74	566
Pneumatic tube	104	161
Closet		
Sanitary	4	300+
Basin combined	4	664+
Bed combined	5	90
Bowl couplings supports and drip collectors	4	252R+
Bowl outlet obstruction remover	4	257
Bowls	4	420+
Cleaning devices	4	257
Closure	4	253
Covers for seats	4	242+
Design	D23	295+
Disinfection	4	222+
Dry closet and furnace combined	4	111.1+
Dry type	4	449+
Dry type with drier or burner	4	111.1+
Flushing tanks	4	353+
Head foot and body rests	4	254
Seats	4	237+
Static mold	249	58
Tub and basin combined	4	663
Ventilation	4	209R+
Warming	126	18
Stove base combined	126	55
Stove pipe heated	126	17
Closing		
Ammunition loading and shell closing	86	25+
Apparel pocket attachment	2	252

	Class	Subclass
Bottom opening hopper door equalizer	298	37
Conductor conduit	191	25
Third rail	191	31
Inkstand (See inkwell)		
Pen, actuated for opening	15	257.75
Metal tube ends		
Welding apparatus	228	60
Paper box or tube		
Folding setting up end closing	493	183+
Receptacle filling and closing	53	266R+
Cooking and filling with cooked food	99	356
Multifolded closure	53	378+
Closure (See also Article Having Closure eg Window)	160	
Adaptable for various sizes	220	287
Apparel		
Buttons and fasteners	24	90R+
Design	D 2	222+
Coat	2	96
Collar	2	141R+
Design	D 2	200+
Flies	2	234
Lacing devices	24	712+
Pocket	2	252
Separable fasteners	24	572+
Shirt	2	128
Shoe	36	50+
Skirt placket	2	218
Skirt waistband	2	219
Sleeves or legs	2	270
Slit	24	437+
Trouser waistband	2	235
Applicator attached	401	126+
Bathtub	4	293+
Bayonet		
Metallic receptacle	220	293+
Wooden barrel bung	217	107
Boiler header	122	360+
Tube	122	364+
Bottles & jars	215	33+
Designs	D 9	367+
Box		
Designs	D 9	414+
Breech	89	17+
Building construction with	52	204+
Bung hole	217	98+
Cabinet		
Foldaway device support combined	312	22+
Inner and outer	312	291
Sectional unit	312	109+
Check	16	82+
Door closer combined	16	49+
Photographic plate holder	354	281
Closet bowl	4	253
Obstruction remover combined	4	255+
Coffin	27	14+
Cooking ovens	126	190+
Disc manufacture of	493	379+
Dispensing	222	544+
Distilling apparatus	202	242+
Fastener	292	
Barrel	217	89
Bottle and jar	215	273+
Breakable neck bottle and jar	215	35+
Burglar alarm combined	116	12+
Cork retaining wire	140	85
Envelope	229	77+
House letter box	232	23
Keepers for	292	340+
Lantern reflector combined	362	374
Letter sheet	229	92.5+
Marine hatch	114	203
Metallic receptacles	220	315
Paperboard box	229	125.19+
Pivoted type closure bottle and jar	215	237+
Railway track joint	238	312
Safes	109	59R+
Sectional metallic receptacle	220	7
Fences	256	
Flexible and portable	160	
Flexible bag closure, misc.	383	42+
Flexible, eg sliding desk top type	206	816*
Floating roof type	220	216+
Foot pedal actuated	220	262
Friction held	220	352
Gas retorts	48	124
Grate		
Fireplace summer front	126	540
Stove draft control	126	160
Hinged metal receptacle	220	334
Horizontal building entry	52	19+
House paint can	220	354
Humidifier	312	31.1
Ice bunker	98	7
Lock	70	77+
Magnetic	220	230
Mail box	232	45+
Mailing sheet	229	92.5+
Manhole	404	25+
Mesh sifter element	209	391
Motor vehicle	49	
Having vehicle system responsive to its position	180	286
Related to theft prevention	180	289
Responsive to vehicle movement	180	282+
With vehicle feature	296	146+
Movable or removable	49	
Oil cup lubricators	184	90+
Operator (See closer)	49	324+
Alarm	116	100
Burglar alarm	116	85+
Cabinet	312	319
Car dumping tilting track	414	354+
Curtain shade screen (See appropriate subclasses in)	160	
Elevator door	187	51+
Furnace door	110	176+
Gate	49	324+
Pen-operated inkwell	15	257.75
Power plant X-art	60	903*
Railway dumping car	105	286+
Railway dumping car control	105	311.1+
Railway passenger car	105	341+
Receptacle and stand	248	147
Receptacle pivotally mounted on rack	211	83
Seat and cover	4	251
Sectional cabinet equalizers	312	110
Showcase	312	139
Stand combined	248	147
Stove door	126	192
Tilting receptacle and stand	248	134
Ornamental, metal receptacle	220	376
Partitions & panels, flexible & portable	160	
Permanent	220	600+
Pipe (tobacco)	131	176+
Pipe or conduit	138	89+
Railway tie end closure	238	104
Protective grill or safety guard	49	50+
Purses	150	118+
Railway rail joint	238	312
Receptacle	220	200+
Bag, flexible	383	42+
Barrels	217	76+
Baskets	217	124
Batteries	429	163+
Bottles and jars	215	200+
Bucket paper	229	910+
Bucket staved wooden	217	76+
Cigar cigarette smoking device holder	131	242
Collapsible material guide combined	222	528
Compartmented letter box	232	25+
Deposit and collection receptacle	232	44+
Dispenser	222	544+
Electrical boxes and housings	174	65R
Electrical outlet and junction box	220	3.8
Envelope	229	76+
Flexible closure	206	816*
Folded blank paper bucket	229	910+
Lantern	362	375
Lubricator valve combined	184	80
Metallic receptacles	220	200+
Milk pail	220	200+
Mixing chamber	366	347
Movable material guide combined	222	531+
Nuclear fuel	376	434
Oil cup	184	88.1+
Paper or web container	493	962*
Paperboard box	229	124+
Purses	150	118+
Rack and closure	211	71+
Sectional for dispenser	222	502
Sifter	209	372
Sliding apertured cap type	222	522+
Spittoon	4	267+
Surface condenser	165	73+
Tube	229	93
Usable as cup or funnel	141	381
Water heater overflow combined	126	384
Wooden boxes	217	56+
Safes	109	64+
Screw-type	220	288
Ship opening	114	201R+
Showcase	312	138.1+
Rack interconnected	312	129+
Tray interconnected	312	127
Sink	4	293+
Soldered or sealed	220	361
Sorter for container closure	209	928*
Static mold	249	204
Stopper type	220	307
Tab tops	220	271
Tie string	493	962*
Time controlled	49	29+
Tire casing	152	515+
Transparent	220	377
Boiler type sight glass	73	330+
Door peep	49	171
Sight glass	73	334
Stove oven door	126	200
Window	49	
Valve	493	962*
Vault pavement type	404	25+
Weatherstrip seal	49	475+
Well	166	325+
Zipper, ie receptacle securement	206	810*
Cloth (See Fabric; Textile)		
Abrasive filled	51	294
Bags	383	
Buttons covered	24	92
Making	79	5
Cleaning or polishing	15	208+
Cutting cloth stock	83	936+
Finishing	26	
Beating	26	25+
Cutting	26	7+
Expanding device for webs	26	71+
Inspecting	26	70
Napping	26	29R+
Pile fabrics	26	2R+
Rubbing	26	27+
Sheet stretching frame	38	102+
Shrinking	26	18.5+
Singeing	26	51+
Stretching or spreading & working	26	51+
Tenter for webs	26	89+
Web spreader	26	87+
Web stretcher	26	71+
Biaxial	26	72+
Fireproof	427	223+
Packages or reels of	242	222+
Purses	150	100+
Reeling and unreeling	242	62
Clothes, Clothing (See Apparel)		
Bed clothing	5	482
Boots and shoes	36	
Design	D 2	264+
Brushes, bristle	D 4	130+
Brushes, non-bristle	D28	9+
Card clothing	19	114
Applying	140	97+
Cleaning machines	D32	1+
Devices for putting on & removing	223	111+
Dryers (See driers drying)		
Handling devices		
Laundry sticks	294	23.5
Tongs	294	8.5
Hanger	223	85+
Holder on chairs	297	190
Knitted	66	169R+
Design	D 2	43
Design	D 2	44+
Label	D 5	63+
Patterns	33	2R+
Pounder	294	23.5
Rack	211	
Bed attachment	5	504+
Sewing methods	112	262.1+
Thermal and electrical treatment	128	379+
Clothesline		
Cleaners	15	256.6
Guide pulley	254	389+
Isolated supports	211	119.1+
Props	248	353
Reels	242	100+

	Class	Subclass
Reels	D 8	358+
Support or attachment	D32	60+
Clothespin	24	455+
Bag design	D32	36
Clasps	24	455+
Design	D32	61+
One piece rigid	24	570+
Pivoted	24	489+
Resilient	24	530+
Track or way guided	24	522+
Wire working making	140	83
Woodworking making	144	9
Clotting (See Coagulating)		
Analysis by coagulometer	422	73
Test with blood clotting factor	435	13
Cloud Chamber	250	335
Clover Huller	460	15
Cloxacillin	540	327
Club		
Carrier for policemans weapon	224	914*
Dumbbell and exerciser	272	122+
Game	273	67R+
Design	D21	210+
Golf	D21	214+
Clutch (See Pawl; Rachet)	192	
Brake and	192	12R+
Coaster brakes	192	6R
Steering by driving	180	6.2+
Crane	212	170+
Eddy current	310	105+
Electric clutch control system	310	92+
Automatic	310	94+
Electromagnetic	310	103+
Fishing reel	242	255+
Freewheeling	192	41R+
Gear combined	192	20+
Lathe carriage feeds	82	132+
Lathe transmissions	82	905
Mechanical movements	74	
Metal rolling mill drives	72	249
Transmission and clutch controls	192	3.51+
Impact delivering	173	93.5
Intermittent grip type movement	74	111+
Exhibiting device		
Electrical control	40	463+
Mechanical control	40	446+
Magnetic		
Automatic electric friction	192	40
Operator electric friction	192	84R
Motor combined	192	
Railway wheel and axle drive	105	130
Reversing mechanisms		
Planers	409	336
Tapping	408	123
Side, in bolt to nut lock	411	296+
Take up	192	110R
Exhibiting device		
Electrical control	40	463+
Mechanical control	40	446+
Transmission combined	192	3.51
Crane	212	170+
Coagulating	252	315.1+
Blood		
Composition for	424	
Properties of fluids determining	73	54+
Surgical	606	111+
Electrical	606	40
Synthetic resin or natural rubber	528	480+
Coal		
Bag or carrier	294	149+
Bin		
Building construction	52	192+
Charging or discharging	414	288
Locomotive tender	105	237
Briquette	44	550+
Buckets or hods	220	2
Cleaner or separator	209	
Coking	201	
Apparatus	202	
Comminutor	241	
Compositions	44	
Conversion to hydrocarbon	585	943*
Cutter	299	79+
Endless flexible	299	82
Rotary	299	89
Feed		
Boiler control	122	449
Boiler water grate combined	122	376
Furnace structure	110	101R+
Locomotive tender combined	105	232+
Metallurgical furnace combined	266	176+
Stokers	110	267+
Fertilizer containing	71	24
Gas making	48	
Liquefaction	208	400+
Locomotives (See locomotive)		
Mineral oil recovery	208	400+
Mining	299	
Ships	114	26+
Shovels	294	49+
Stove	126	
Treating process	44	620+
Coanda and Coanda Effect	239	DIG. 7
Flow affected by	137	803
Coaptation Splints	128	85
Coaptator	606	213+
Coast Artillery (See Gun)		
Coaster		
Brake	192	5+
Drink mat or holder	D 7	624
Glass or tumbler	248	346.1
Wagon	280	87.1+
Coat		
Apparel	2	93+
Boat mast	114	93
Fluid control device using		
Design	D 2	183
Design, dress &	D 2	91+
Design, evening dress or suit	D 2	53+
Design, three piece ensemble	D 2	87+
Forms	223	68+
Hangers	223	92+
Design	D 6	315
Coated Article (See Type of Article)	428	
Electrolytically produced	204	14.1+
Explosive or thermic stock	149	3+
Fuel	44	542
Metal particle	428	570
Metal stock	428	615+
Coating		
Anticorrosive	106	14.5+
Apparatus	118	
Detearing	118	639
Electromagnetic	118	623
Electrostatic	118	621+
Lubrication	184	
Match dipping	144	50+
Mold metal casting	118	
Mold plastics	118	
Paper hanging combined	156	574+
Pipes	118	708+
Pipes	118	105
Pipes	118	125
Pipes	118	404+
Pipes	425	110+
Pipes	425	460
Printing	101	
Typecasting	199	
Typesetting	276	
Typewriting machines	400	
Semiconductor vapor doping	118	900*
Xerographic transfer	118	644+
Applicator or applier	15	
Material supply combined	401	
Separable from supply	401	118+
Classifying separating assorting solids by	209	47+
Coated surface or mass	209	49+
Cleaning by	134	4
Combined with other manufacturing operations (See particular art)		
Composition (See composition coating)		
Window glass to prevent deposit and freezing of moisture	106	13
Electrical barrier layer	437	
Composition	252	62.3 R
Electro less	427	304
Implement	15	104R+
Material supply combined (See brush, pens, etc.)	401	
Metal founding combined	164	
Mold making with	164	14
Mold surface	164	72+
Workpiece	164	75
Paper making combined		
Apparatus	162	265+
Process	162	135+
Paper undried	162	158+
Plastic	106	
Printing	101	
Processes	427	
Abrasive tool	51	295
Catalysts	502	100+
Cathode sputtering	204	192.1+
Dyeing combined	8	495+
Electrically conductive	427	58+
Electro less	427	304
Electrolytic	204	14.1+
Electron emissive	427	77+
Electrophoretic or electro osmotic	204	180.2+
Electrostatic	427	13
Foods	426	289+
Metals by chemical action	148	240+
Molds	427	133+
Textiles chemical modification combined	8	115.6
Recovery	427	345
Removal		
By electric spark or arc	219	383+
Repellent	106	3
Manufacture	65	24+
Robot	901	43+
Synthetic resin or natural rubber (See class 523, 524)		
Testing	73	150R
Textile operation combined		
Braiding, netting or lace making	87	23
Covering or wrapping	57	7
Spinning twisting or twining	57	295+
Warp preparation	28	178+
With glass mfg	65	60.1
Coaxial Cables	174	102R+
Making	29	828
Switch for	200	
Wave guide type	333	239+
Cobalamin, in Drug	514	52
Cobalt		
Alloys	420	435
Electrolytic		
Coating	204	48
Synthesis	204	112+
Hydrometallurgy	75	711+
Metal stock	428	668+
Organic compounds containing	556	138+
Pyrometallurgy	75	626
Combined with hydrometallurgy	75	416+
Radiation imagery	430	936*
Cocaine	546	130
Cochineal Solution	252	408.1
Cock (See Valve)		
Abrading machines	51	98
Barrel bung	217	99+
With cutter or punch	222	81+
Carbide feed generator	48	40
Design	D23	233+
Dispensing	222	544+
Nozzle terminal	239	445
Pinch	251	4+
Sea	114	198
Support	248	67
Test liquid level	73	297
Time actuated	137	624.11+
With time indicator	137	552.7
Cocker	56	401+
Firearms	42	40+
Cockpit	244	119+
Cocktail Shaker	220	568
Agitating feature	366	
Design	D 7	300.1
Cocktail Stick	D 7	683
Cocoa Preparation	426	631
Apparatus	99	467
Cocoanut	426	617
Comminuting	241	
Shelling	99	568+
Cod Liver Oil	260	398+
Extraction	260	412.1
Medicine containing	424	555
Cod, Chemical Oxygen Demand Tests	436	62*
Code and Code Signaling		
Card or tape punching	83	
Code conversion	234	69+
Finger print as code for lock	70	277
Punch selection	234	94+
Punch selector	234	94+
Selective	234	
Synthetic speech from	381	51+
Code conversion	234	69
Coded record		
Magnetic record medium	360	131+
Record controlled calculators	235	419+
Records per se	235	487+

	Class	Subclass
Sensors	235	433+
Vehicle ignition enabling	307	10.3+
Cryptography	434	56+
Fraud preventing	283	73
Printed matter	283	17
Typewriter	400	89+
Digital data error correction	371	30+
Electric	340	
Boring (See auger; bit)	178	
Error/fault detection techniques	371	
Handling & transmission of coded intelligence	178	2R
Modulation system	375	59+
Modulator	341	
Telephone	375	8+
Radio	375	
Transmitter	375	59+
Teaching	434	222
Train control	246	175
Train dispatching	246	7+
Visual or audible	116	18+
Codeine	546	44
In drug	514	282
Coffee	426	594+
Apparatus	99	568+
Balls	426	279
Cafeteria service unit	D34	14
Coating	426	289+
Grinder	D 7	372+
Grinding mill	241	
Maker	D 7	300+
Household type	D 7	300+
Pot	99	279+
Handle, asymmetric	D 8	DIG. 9
Strainer	210	464+
Preservation	426	330.2
Roaster	D 7	323+
Substitutes	426	596+
Cofferdam	405	11
Coffin	27	2+
Alarm systems	340	573
Casings portable	27	35
Design	D99	1+
Hearses	296	18+
Lid fasteners	27	DIG. 1
Lowering devices	27	32
Cable	254	264+
Coherers	329	371
Resistors for	338	1
Coil (See Spring)		
Bimetallic thermometer	374	204
Covers and cases	206	303
Electrical	336	
Electromagnet	335	299+
Armature combined	335	220+
Electrotherapeutic	600	13+
In audio reproducer	381	192+
Making	29	605+
Making laminated	156	
Surgical	600	9+
Switch	335	250
Winding apparatus	242	7.7+
Winding method	242	7.3
Electromagnetic switch	335	299+
Winding apparatus	242	7.7+
Winding method	242	7.3
Evaporator rotatable heater	159	25.1
Fabric		
Cleaning implement	15	225
Wire	245	6
Wire mesh	140	92.3+
Form electric	336	199+
Holder winding and reeling	242	129
Induction	336	
Body treatment	600	9+
Check operated switch combined	194	239+
Coupling networks	333	24R+
Electric systems	323	355
Furnace core-type	373	160
Furnace coreless	373	152+
Heaters	219	6.5+
In telephone terminal	379	391+
Metal heating	219	6.5+
Telephone movably actuated	381	192+
Telephone repeating type	379	344+
Transformer	336	
Tuners radio	334	71+
Liquid cooler	62	399
Liquid heater central standpipe water tube	122	244+
Liquid heater flue type internal water tube	122	169+
Liquid heater water tube	122	247+
Loading communication lines	178	46
Making miscellaneous	29	606+
Pipe making	72	135
Resistance electrical	338	296+
Shield electric	174	35CE
With coil	336	84R+
Springs		
Bed bottom with attached slats	5	245
Bed bottom with connecting fabric	5	235
Spiral bed bottom	5	256
Top connection bed bottom	5	272
Thermostat compound bar	428	616
Transformer	336	
Telegraph system	178	64
Tuners radio	334	59+
Coiling (See Winding and Coiling)		
Coin and Coining (See Check)	72	359
Box		
Closure	232	55+
Fare	232	7+
Savings	232	4R+
Savings paper	229	8.5
Toy	446	8+
Brassiere with coin pocket	450	89
Card and container	D18	3
Cash register, coin refund device	235	7A
Change holding machines	D99	34+
Change makers	453	1+
Check-controlled apparatus	194	
Coin ejection	194	342
Coin return	194	344+
Controlled by coin size or weight	194	334+
Controlled by machine operation	194	200
Empty dispensing magazine	194	200
Coin slot closers	194	351
Different values for different coins	194	227
Multiple coin	194	229+
Multiple coin, electrical	194	230+
Chute	193	DIG. 1
Coin-controlled		
Arcade-type viewer projector	D16	226
Billard table	273	11C
Circuit maker-breaker digest	200	DIG. 3
Corn popper	99	323.6
Lock	70	DIG. 41
Phonograph	D14	173
Jukebox	D14	173
Print machines	101	DIG. 44
Telegraphy system	178	2F
Telephony system	379	143+
Telephone design	D14	146
Vending machines	D20	1+
Coining	72	359
Counting apparatus	453	58+
Deliverer	232	64+
Delivering apparatus	453	18+
Detector	194	302+
Dispensing receptacle	453	18+
Handling	453	
Controlled apparatus	194	
Holder or tray	206	.8
Design	D99	24
Pocketbook-type design	D99	34
Wrapper or holder	493	945*
Mats	206	.8+
Metal work by deflection		
Helix	72	135+
Orbiting tool	72	66
Spiral	72	146+
Meters	194	
Money holder-receptacle	232	1D
Packaging	453	59
Packing apparatus	53	532+
Purse	150	150+
Design	D 3	42+
Keyholder combined	D 3	43
Receptacles and packages	206	.8+
Register, electrically operated	377	7
Sorters	453	3+
Stacking	453	61+
Symbolic token or ornament	D11	95
Tester	73	163
For coin controlled apparatus	194	302+
Scales	177	51
Tokens or coin type checks	40	27.5
Traps	232	55+
Wrappers	229	87.2
Wrapping machines	53	212+
Coke		
Apparatus for making	202	96+
Autothermic	202	91+
Autothermic and thermolytic distillation combined	202	85+
Separatory & thermolytic distillation combined	202	84
Fuel	44	607
Briquette	44	591
Processes of making	201	
Mineral oil feed	208	46+
Refining combined	201	17
Pushing machines	414	160+
Quenchers	239	750+
Colamine	564	503
Colander	210	415
Plunger combined	241	84.2
Colchicine, in Drug	514	629
Cold Cream	514	772+
Cold Frame	47	19
Cold Squirting	72	267
Cold Trap	62	55.5
Cold Welding	228	115+
Collage		
Representative of real object	428	39
Collagen	530	356+
Collapsible		
Bed	5	12.1+
Can (beverage)	224	906
Core bar	164	400
Paperboard box	229	117.1+
Receptacle	222	92+
Sign	40	610
Steering post	280	777
Toy	446	487+
Building	446	478
Tube	138	119
Wall		
Receptacle	222	92
Weigher	177	126
Work holder	269	901*
Collar		
Animal restraining	119	106
Design	D30	152
Apparel	2	129+
Coat	2	98+
Design	D 2	602+
Design, fur	D 2	601
Ironing	223	52.1+
Making	223	2+
Making, X-art	83	901*
Protectors	2	60
Receptacle flexible	206	278+
Shirt attached	2	116
Weaving	139	385.5
Buttoners	24	40
Buttons	24	101R+
Horse	54	19R+
Design	D30	137
Hame combined	54	18R
Shaping	69	3
Stuffing	69	4
Lamp shade support	362	443
Puller	29	700+
Rod collar joint	403	230+
Stovepipe	126	315
Supports	2	132
Collators	270	52+
With feeding	271	287
Collecting Mechanism (See Device with which Combined)		
Carbon black	422	150+
Collection Receptacle and Chamber	232	
Abrading device	51	270
Earth boring combined	175	
Railway passenger car dust guard	105	352
Stove ashpan	126	242+
Street sweeping machine	15	83+
Wiping daubing polishing implement	15	221
Collector		
Electric		
In arc lamp	314	129
Ring	310	232
To moving object	191	
Vehicle transmission	191	45R+
Overlapping roof shingles or tiles	126	DIG. 2
Collet		
Chuck	279	46R+
Split socket	279	41R+
Horological hair spring	368	177

	Class	Subclass
Insertion / removal tool	29	213.1
Collimator		
Image projector having	353	102
Light beam projector having	362	257+
Faceted reflector	362	297+
Optical system	356	138+
Signal reflector having	350	102+
Testing device having	356	153
Collisions (See Protection)		
Avoidance	367	909*
Aircraft systems	342	29
Ship systems	342	41
Collocating Gauge	33	613+
Collodion	106	169+
Colloids	252	302+
Radioactive	252	634+
Cologne	D28	5
Colophony (See Resin)		
Color & Coloring (See Dyeing; Pigment)		
Application training	434	81+
Assorting by	209	580
Charts		
Color display	434	98+
Unknown color test	356	421+
Electrophotographic copier	355	326+
Filter	350	311+
Photographic chemically defined	430	6+
Flowers by absorption of dye	427	4
Food	426	540+
Preserving or modifying color	426	262
Fresh flowers	47	58
Glass heat developed	65	111+
Lanterns	362	166+
Signal	362	168
Luminous, inorganic	252	301.6 R+
Luminous, organic	252	301.16
Mineral oil	208	12
Musical instrument accessory	84	464R
Paper	8	
Photography (See photography)	430	357+
Separation record making	430	356
Seams	112	17
Colorimeter	356	402+
Chemical analysis, apparatus	422	82.9
Photoelectric	250	226
Visual or photoelectric	356	402+
With computer	364	526
With light conductor	250	227.23
Colorimetric Radiation Dosimeter	250	474.1
Colostomy		
Bags	604	338+
Receptacle engaging stoma	604	332+
Colter	172	
Bearings	384	157
Plow combined	172	165+
Rolling	172	518+
Column (See Mast; Pole; Post)	52	720+
Aerated column pump	417	108+
Design	D25	126+
Fractionating	261	75+
Combined	202	158+
Mineral oil	196	139
Still combined	202	153+
Making	29	897.33
Static mold	249	48
Comb and Combing	D28	21+
Cleaner		
Brush machine	15	39
Comb combined	132	119
Implement	15	104.5+
Cornstalk huskers	56	114+
Cotton harvester	56	34+
Curry	119	86+
Design	D30	159
Fiber liberating	19	29
Fiber working	19	115R+
Grids combined	15	142
Hair	132	219+
Design	D28	21
Hat fasteners	132	61
Honey foundation	449	44+
Honey frames	449	42+
Kits toilet	132	121
Leather manufactures	69	27
Making wire	140	100
Making wood	144	26
Making, X-art	83	908*
Making, X-art	425	805*
Music	84	94.1+
Scissors combined	7	136+
Seed gatherers	56	127+
Surgical	128	393
Textile		
Fiber preparation	19	115R+
Thread finishing	28	222+
Warp preparing	28	212+
Comber Board	139	86
Combinational Code		
Conversion, for punching	234	69+
Punching, selective	234	
Combustion (See Thermal)	431	
Attenuating sound	431	114
Burner control	431	18+
Chamber	431	350+
Exhaust pump	431	157
Fluid fuel burner	431	308+
Fluid fuel burner	431	350+
Outlet forms jet nozzle	431	158
Pre-chamber	123	253+
Control of nitrous oxides	60	900*
Earth boring by	175	12
Earth in situ	166	256
Engine	123	
Exhaust treatment	60	272+
Combustion products with	60	39.5+
Fluid injector	239	584+
Fluid motor combined	60	616+
Free piston device	60	596
Vacuum generated	60	397
Waste heat driven motor	60	597+
Pump drive	417	364
Pump regulator	417	34
Reaction motor	60	200.1+
Reaction motor with aircraft	244	74
Rotary piston	123	200+
Temperature measurement	374	144+
Turbine combined	60	598+
Turbine combined, product	60	39.34+
Failure responsive fuel safety cutoff	137	65+
Fumigant	424	40+
Improver for solid fuel	44	641
Processes	431	2+
Product		
Exhaust treatment	60	272+
Fire extinguishing agent	169	12
Generator	60	722+
Power plant	60	39.1+
Pulsating	431	1
Pump	417	73+
Tube		
Comforters	5	502+
Bedding	D 6	596
Comminuting	241	
Liquid metal	75	331+
Refrigeration combined	62	320
Refuse treatment means	110	222
Rock in situ	299	
Shredding metal	29	4.51+
Shredding metal and sintering	419	33
Strainer combined	210	173+
Combined	201	7+
Tobacco	131	311+
Feeding combined	131	109.1
Vegetables and meat	241	
Comminuter Element	241	293+
With cooperating surface	241	261.1
Commode		
Dry closet	4	449+
Communication Equipment (See Type of Equipment Desired)		
Aids for handicapped	434	112+
Communications		
Demodulators	329	
Electrical	340	
Alarms	340	500+
Audible, eg simulated noise in trainers	340	384R+
Character recognition systems	382	
Code converters	341	
Code transmitters	341	173+
Operator controlled	341	20+
Compressional wave	367	
Continuously variable indicating, eg telemetering	340	870.1+
Digital comparator systems	340	146.2+
Echo systems	367	87+
Elevator	187	130+
Error checking systems	371	
Image analysis	382	
Selective, eg remote control	340	825+
Signals, visual	340	815.1+
Tactual signals	340	407
Traffic control signal	340	907+
Underwater	367	131+
Vehicle mounted signal	340	425.5+
Well bore, compressional wave	367	81+
Well bore, electrical	340	853+
Light wave	455	600+
Modulated carrier wave communications systems	455	
Modulators	332	
Multiplexing	370	
Non-electric miscellaneous	116	
Pulse or digital	375	
Radio	455	
Recorders	346	
Recording registers & calculators	235	
Sound recorders	369	
Telecommunications	455	
Telegraphic carrier wave	375	
Telegraphy	178	
Telephony	379	
Television, facsimile	358	
Commutation Book and Ticket	283	26
Commutator		
Bars	310	233+
Brushes	310	248+
Holders	310	239
Flanging tube to hold segments	29	243.517+
Grinders	51	244
Making	29	597
Assembling apparatus	29	732+
Structure	310	233+
Turning portable lathe	82	128
Type motors		
Alternating current	310	173+
Universal	310	158
Compacting (See Jarring)		
Agitating	366	
Beverage infuser combined	99	287
Burnishing	29	90.1+
Cooking apparatus combined	99	349+
Earth boring by	175	19+
Foundry mold sand	164	37+
Glass manufacturing	65	111+
Leather hammering	69	1
Machinery design	D15	20
Metals	419	61
With sintering	419	
Nuclear fuel	264	.5
Pipe making combined	425	110+
Pipe making combined	425	262
Powder metallurgy	419	38
Slip or slurry	419	40
Presses and pressing	100	
Foundry mold material	164	207+
Receptacle filling combined	141	71+
Bag	53	523+
Refuse treatment means	110	223
Textile thread	26	18.6
Trash bundle	428	2
Compacter	D15	20
Compacts	132	293+
Absent special toilet article	401	126+
Design	D28	78
Illuminated	362	135+
Compander	333	14
Compressor amplifier		
Thru bias control	330	129+
Thru impedance control	330	144+
Thru thermal impedance control	330	143
Expander amplifier		
Thru bias control	330	129+
Thru impedance control	330	144+
Thru thermal impedance control	330	143
In electrical recording or reproducing	369	174
Comparators		
Configuration	356	388+
Microscope subcombination	350	507+
Optical	356	
Projection type	356	391+
Compartment		
Aircraft		
Freight	244	118.1+
Passenger	244	118.5+
Safety lowering device	244	140+
Bed element	5	308
Boiler	122	37+
Building	52	234+
Cigar cigarette smoking device holder	131	242
Land vehicle bodies	296	24.1+

	Class	Subclass
Luggage	296	37.1+
Marine	114	78
Motormans	105	342
Pillow	5	442
Receptacle		
Apparel pocket	2	253
Bag, flexible	383	38
Bag, multiple pocket	383	38+
Baggage convertible to furniture type bureau	190	3+
Barrel	217	75
Beverage infuser	99	316+
Bottles and jars	215	6
Cabinet	312	
Collapsible	222	94
Cover for barrel	217	82
Dispenser	222	129+
Drying apparatus rotary drum	34	109
Envelope	229	72
Fire extinguishers	169	71+
House type letter box	232	21
Ice in wooden receptacle	217	130
Kilns and driers	34	209+
Letter box	232	24+
Material holder for heating	432	213+
Medication containing	604	403+
Metallic	220	500+
Nested drum driers	34	128
Oil vaporizer	196	111
Paperboard box	229	120.2+
Pitcher	222	129+
Purse	150	112+
Showcase	312	117+
Sifter	209	373
Sliding tray type paper box	229	10
Spaced wall or jacket	220	445+
Special receptacles	206	
Traveling bags	190	109+
Type cases	276	44+
Washing machine tumbling drum	68	139+
Wooden box	217	7+
Safes	109	53+
Movable	109	45+
Secret cabinet with	312	204
Sofa bed element	5	58
Tub	4	514
Outlet fittings	4	208
Supply fittings	4	193
Water closet flush tank	4	363+
Compass		
Course recorder	346	8
Design	D19	38
Divider	33	558.1+
Gyromagnetic	33	316+
Gyroscopic	33	324+
Magnetic	33	355R+
Repeater stations combined	340	870.15+
Saws	83	835+
Scriber	33	27.2
Beam type	33	27.3
Scriber compound	33	26
Compensating		
Abrading tool wear	51	155
Alternating current phase	323	212
Backlash	409	146
Gear cutter	409	5
Brake wear	188	214+
Clock and watch balances	368	171
Regulating	368	170
Clock pendulums	368	182
Clutch	192	110R
Compass magnetic	33	356+
Conductor electric	174	12R+
Flow meter	73	254
Fluid pressure	138	26+
Gearing	475	220+
Gearless differential	74	650
Gun sight	33	237
Internal combustion engine	123	192R
Lamp electric	314	13+
Musical instrument winding	84	131
Pump pressure	417	540+
Railway switch interlocking	246	152+
Thermometer	374	197.
For thermocouple circuit reference junction	374	181
Transmission electric	333	18
Valve	137	625.34+
Vehicle	180	76
Vehicle steering	180	6.24+
Weighing scale temperature	177	226+
Compensator		
Expansion or contraction		
Static mold	249	82
Compliance Device	33	832
Robot	901	45*
Composing		
Typesetting	276	
Sticks	276	38+
Composite Article (See Laminate)		
All metal or with adjacent metals	428	615+
Making by powder metallurgy	419	5
Making core and winding	242	7.1
Multipart article shaping	264	45.1+
Static mold for making	249	83+
Composition (See Type)	252	
Abrasive	51	293+
Absorbent	502	400+
Algicides	71	67
Alloy	420	
Antibiotic mixture	424	114
Antifog	106	287.1+
Antihemorrhagic	424	
Aquatic plant destruction	71	66+
Asphalt, tar, pitch	106	
Mineral oil only	208	22
Biocidal	424	
Coating or plastic combined	106	15.5+
Mineral oil only	208	2
Candles	44	275
Catalytic	502	100+
Ceramic	501	1+
Chemiluminiscent	252	700
Combined light source	362	34
Coating	106	
Match splint	149	3+
Metal base reactive	148	240+
Mold	106	38.22+
Colloidal	252	302+
Core		
Metal casting	106	38.2+
Plastic molding	106	38.2+
Crayons	106	19
Crosslinking	252	182.11+
Curing	252	182.11+
Defoliant	71	69+
Desuckering	71	78
Detergent	252	89.1+
Diagnostic biological	424	2+
Dielectric fluid	252	570+
Hydrocarbon	585	6.3+
Distilling apparatus	202	267.1
Dye	8	
Electric insulation fluid	252	570+
Hydrocarbon	585	6.3
Electrically conductive	252	500+
Electrode (See electrodes)		
Electrolyte	204	
Battery	429	188+
Condenser or rectifier	252	62.2
Electron emissive	252	500+
Embalming	424	75
Emulsifying	252	351+
Explosive	149	
Fertilizer	71	
Fire extinguishing	252	2+
Flux	148	23+
Food and beverage	99	
Friction for matches	149	
Fuel	44	
Gaseous	48	197R+
Jet	149	1
Mineral oil only	208	15+
Growth regulating for plants	71	65+
Hardening	252	182.11+
Herbicides	71	65+
High boiling	252	71
Humidistatic	252	194
Hydrocarbon	585	1+
Inorganic materials only	106	286.1
Insulators		
Fluent electric	252	570+
Interactive	252	183.11+
Light transmission modifying	252	582
Low pour point	252	71
Lubricant	252	9+
Mineral oil only	208	18+
Luminous, inorganic	252	301.6 R+
Luminous, organic	252	301.16
Mantle	252	492
Match	149	
Medicinal	424	
Mold forming	106	38.2+
Molten metal treatment	75	303+
Monomers	252	182.11+
Non-interactive	252	182.11+
Optical filter	252	582+
Photo conductive	430	56+
Photographic		
Developing	430	464+
Sensitizing	430	570+
Sensitizing and developing	430	486+
Plastic	106	
Mineral oil only	208	22+
Polymer precursors	252	182.11+
Pyrotechnic	149	37+
Radioactive	252	625
Medicinal	424	1.1
Production	376	171
Rubber containing (See synthetic resin or natural rubber)		
Tanning	8	94.19 R+
Textile treating	252	8.6+
Thermoelectric	136	236.1+
Undertaking	424	75
Utilizing wave energy	522	71+
Vulcanizing	252	182.11+
Water softening	252	175+
Wax	106	
Mineral oil only	208	20+
Welding flux	148	23+
Wick	502	400
X-ray contrast	424	4
Compound (See Type)		
Casting metal	164	91
Electrolytic production of	204	59R+
Hydrocarbon	585	16+
Lumber	52	782+
Mail receiving	52	364+
Metallic stock	428	615+
Organic	260	
Electrolytic production of	204	72+
Electromagnetic production of	204	157.15+
Electrostatic or electric discharge production of	204	165+
Fermentative production of	435	
Mineral oils	208	
Sugar and starch	127	
Refrigeration	62	332+
Automatic	62	175
Steam engines	91	152+
Temperature sensing member	428	616
In thermometer	374	205+
Tools	7	
Compressed Air (See Pneumatic and Fluid Operated)		
Vehicle brakes	303	
Compressing Apparatus (See Compressor, Molding, Pressing, Shaping)	417	
Barrel	147	4+
Harvesters		
Binding combined	56	432+
Shocker combined	56	430
Refrigeration	62	498+
Automatic	62	190+
Rims	157	2
Seams		
Die	413	31+
Folding combined	413	27+
Roller	413	31+
Tube side seam	72	48+
Snow	37	225+
Tobacco plug making	131	111+
Compression Member (See Column)		
Spring	267	70+
Compressional Wave		
Generators	116	137R
Submarine signal	367	131+
Compressor		
Body		
Brassiere		
Brassiere design	D 2	24
Brassiere or chest bandage	450	1+
Corset or girdle	450	94+
Corset or girdle design	D 2	2+
For upper leg or thigh	450	101
Design of machine	D15	7+
Gas pumps	417	
Refrigerator compressor muffler	181	403+
Tube pinching valve	137	384.2+
Comptometer	235	82C
Computer		
Applications & systems	364	400+

	Class	Subclass
Automatic control of recorder mechanism	360	69+
Cassette	360	131+
Cassette or cartridge holder	206	387
Character recognition	382	
Coded document sorting	209	547+
Computerized switching in telephone systems	379	284
Controlled display	364	518+
Converting analog signal to digital	360	32
Data processing equipment	D14	100+
Disc	360	135
Drum	360	136
Dynamic magnetic information storage or retrieval	360	
Electrical	364	
Analog	364	800+
Applications		
Computational systems	364	400+
Data processors, general	364	200
Data processors, special	364	900
Measuring system, electrical	364	481+
Measuring systems, physical	364	550+
Calculators		
Analog	364	800+
Digital	364	700+
Control systems	364	130+
General purpose digital data processor	364	200
Hybrid type	364	600+
Special purpose digital data processor	364	900
Systems controlled by data bearing records	235	375+
Equipment	D14	100+
Error checking system in computer	371	
General processing of digital signal	360	39+
General processing of TV signal	360	33.1+
General recording or reproducing	360	55+
Geophysical system with digital computer	367	60
Head	360	110+
Mounting	360	104+
Transport	360	101+
Holder for magnetic disc assembly	206	444
Memory system subcombinations	365	
Data processing	364	900
Microprocessor	364	200
Camera photographic operation	354	412
Modulating & demodulating	360	29+
Monitoring or testing progress of recording	360	31
Non-electrical	235	
Fluidic	235	200R
Mechanical	235	61R
Record controlled	235	419
Ordnance	235	400+
Programmed data processors	364	200
Radar system combined	342	195
Record controlled, electronic	235	375+
Record copying	360	15+
Record editing	360	13+
Record medium	360	131+
Record transport	360	81+
Restrictive access over telephone line	379	95
Signal splitting	360	22
Special purpose television system application	358	93+
Tape	360	134
Teaching computer science	434	118
TV application	358	903*
Computing		
Distance rolling contact	33	733
Nuclear reaction control	376	217
Registers	235	
Scales	177	25.11+
Weighing	177	25.11+
Solar	33	268
Tape length	33	763
Workmens labor and wage recorder	346	
Concealed Data		
Printed matter	283	72+
Concealment (See Camouflage)		
Warship	114	15
Concentrating		
Beverage	426	425+
Cathode ray beams	313	441+
Evaporators	159	
Ionized gas for thermo nuclear reaction	376	100
Liquids in liquids		
Apparatus	422	256+
Processes	23	306+
Milk	426	587+
Ores	423	1+
Ores	209	
Rare element, inorganic	423	
Separating solids	209	
Rubber		
Natural	528	937*
Synthetic or natural	523	335
Sugar crystallization combined	127	16
Concentric Tube or Cylinder		
Burner gas	431	195+
Electric cable flexible	174	102R+
Fluid vacuum or air	174	28+
With insulation spacer	174	99R+
Expansible chamber device	92	51+
Flue	122	160+
Header water tube	122	362
Heat exchanger	165	154+
Pipe joint	285	133.1+
Pipe joint flexible pipe	285	149
Transmission line	174	103+
Involving line parameters	333	236+
With nonsolid insulation	174	28+
Concertina	84	375
Keyboard type	84	376R
Concrete		
Beam or joist	52	723+
Block machine	249	117+
Compositions	106	713+
Filling subterranean cavity	405	267
Freight car	105	405
Gas content testing	73	19.2
Making concrete blocks	264	333
Marine structure cast in situ	405	222+
Mixers	366	1+
Mold	249	
Adjuncts	249	205
Elements	249	187.1
In situ construction type	249	207
Clamps or brackets	249	219.1
Water type	249	219.2
Mold	425	62
Mold	425	63
Mold	425	87
Mold	425	458
Tie wire puller	254	18+
Piles	405	256+
Casting in situ	405	233+
Sheet	405	275
Pipe machine	425	110+
Pipe machine	425	262
Pipes	138	175+
Composite	138	153
Polymer containing (See synthetic resin or natural rubber)		
Prestressed making	264	228
Radiation barrier nuclear	376	293
Radiation barrier nuclear	376	287
Radiation barrier nuclear	250	515.1
Railway surface track	238	5
Center way concrete	238	7
Pedestals	238	115+
Stringers	238	25
Rammers	425	424
Rammers	425	425
Rammers	425	456
Rammers	425	469
Reinforcement	52	720+
Reinforcing	264	271.1
Reinforcing bar	D25	164
Ribbed construction	52	319+
Structures	52	
Arch	52	88
Beam or joist	52	723
Corner	52	250+
Faced	52	378
Hollow	52	380+
Lift slab	52	125.1
Moisture remover	52	310
Position adjusting	52	126.1+
Reinforcement	52	720+
Ribbed	52	319+
Stair	52	189
Void former	52	577
Concretion Removal	606	127
Condensation (See Alkylation; Polymerization)		
Preventer		
Electric heaters	219	203
Windows and windshields	52	171+
Windows by ventilation	98	90+
Condensed		
Milk	426	587
Condensed Billing		
Typewriter		
Line spacing	400	566+
Paper feeding	400	595+
Condenser		
Atmospheric condensate	62	272+
Automatic	62	150+
Process	62	80+
Electric		
Amplifying device system	330	7
Anti induction telephone or system	379	414+
Bushing insulating	174	143
Charging and discharging	320	1
Circuit element	361	271+
Electrolytic type	361	500+
Induction apparatus combined	361	268+
Laminated making	D22	115+
Lamp and electronic tube supply circuit combined with	315	227R+
Making	29	25.41+
Making electrolytic	29	25.3
Motor system	318	781+
Nonelectrolytic type	361	271+
Phase regulation	323	212
Reactance tube system	333	213
Synchronous motors	310	162+
Testing	324	673
Treatment living body	128	783+
Variable type	361	277+
With variable resistor	323	370
X ray system combined with	378	103
Furnace electric	373	56+
Mechanical		
Making	29	890.7
Microscopes	350	414+
Lens construction	350	374+
Mounting, vehicle type	180	68.4+
Press	100	
Refrigeration including	62	
Steam engines	60	643+
Steam heaters	261	DIG. 1
Textile fiber preparation		
Article screen	19	148
Feed with	19	89
Multiple rotor feed with	19	88
Web forming screen	19	304+
Vapor	165	110+
Arc lamp fumes	314	26+
Beverage infuser	99	293+
Cooking apparatus basting	99	347
Drying combined	34	73+
Heat exchanger	165	110+
Jet gas and liquid contact apparatus	261	76+
Jet gas pump combined	417	173+
Jet heat exchanger	165	112+
Jet power plant exhaust	60	264+
Jet power plant exhaust	60	266+
Mercury vapor lamp	313	34
Mineral oil distillation	208	347+
Mineral oil distillation apparatus	196	138+
Mineral oil distillation with vaporizing apparatus	196	98+
Refrigerant	62	506+
Steam	165	110+
Still separatory	202	164
Still separatory preheater	202	180
Still separatory vapor treating	202	185.1+
Water heater combined with	126	381+
Water heater with liquid supply	126	380
Zinc pyrometallurgy	75	665+
Condiment	426	650+
Holder and dispenser		
Design	D 7	590+
General types	222	
Hand manipulable shaker type	222	142.1+
Conductor		
Electric	174	
Coated	428	375+
Coated	427	58+
Coated or covered	174	110R
Coated welding electrodes	427	59+
Coated with metal	428	615+
Coated with plural coatings	427	118+
Coating	427	117+

	Class	Subclass
Coating by extruding plastic	425	113
Composition alloy	420	
Composition metallic	75	
Composition miscellaneous	252	500+
Composition treated metal	148	400+
Freeing of ice and snow	191	62
High frequency systems	333	
Inductive disturbance reduction (See anti induction)		
Lightning protection	174	2+
Making indefinite length	156	47+
Making or joining running length	156	47+
Piercing detachable tap connector	439	431+
Placing apparatus	254	134.3 R+
Plate vehicle supply type	191	13
Rail joint interposed	238	14.5+
Railways for electric	191	
Sectional vehicle supply type	191	14+
Supports	248	49+
Tubes and conduits	174	
Vehicle supply type	191	22R+
Whipping apparatus	242	7.6
Feeding metal rolling guide	72	250+
Furnace spark and smoke	110	145+
Furnace spark returning	110	120
Gas flow to separator	55	418+
Downstream of separator	55	410+
Lightning	D10	105
Sound muffler fluid guiding	181	212+
Spoons with fluid	30	141
Thermal flow tubular textile treatment	68	193
Conduit (See Hose; Pipe; Tube)	138	
Boiler blowoff	122	383+
Boiler circulation	122	408.1+
Boiler feed heater	122	428+
Chain making	59	78.1
Connector electric	439	207+
Coupling plural	285	131+
Pipe and plate	285	130
Culvert	405	124+
Drainage or irrigation	405	43+
Drill oil	408	57+
Earth boring tool	175	393
Electric conductor	174	
Design	D13	153
Electric transmission to vehicles	191	23R+
Collectors	191	48
Fire tube circulation	122	59
Flue spiral	122	183
Fluid current conveyor	406	191+
Design	D23	266
Flume	405	119+
Heat exchange	165	177+
Irrigation	405	43+
Laying	405	154+
Milker hand	119	14.22
Pneumatic conveyor	406	191+
Railway crossing cable	104	185+
Railway slotted	104	140+
Railway switches	246	419
Railway truck in	104	139
Static mold	249	144+
Structure	138	177
Thermometer	374	147+
Track clearers	104	280
Trap thermostatic	236	60
Tubular	138	
System	137	
Valved	251	
Ventilating	98	56+
Cone		
Edible design	D 1	116+
Ice cream	D 1	116
Mills	241	244+
Paper stock refining	241	244+
Seger	374	106
Shell mill	241	244+
Wind	242	27+
Packages	242	175
Winding	242	27+
Confectionery		
Coating apparatus	118	13+
Compositions	426	660+
Cutting machines	83	
Design	D 1	
Hand molds	249	
Packaging	426	392+
Confetti Devices	446	475
Conformator Gauge	33	561.1+
Congelation Refrigeration (See Gel)		
Confections with molding	425	9
Confections with molding	425	118
Confections with molding	425	332+
Dewaxers	208	37+
Dry ice making	62	10
Drying process step	34	5
Earth control solidification	405	130
Fluid storage cavity walls	405	56
Food preparation combined	426	524+
Gas solidifiers	62	8+
Shaping combined	62	35
Jellies	426	576+
Liquid	62	340+
Automatic	62	135+
Ice cube trays and molds	249	66.1+
With release means	62	300+
Process	62	66+
Connecting Rod (See Pitman)	74	579R
Locomotive	105	84
Piston connection	92	187+
Railway track switch	246	452
Connection (See Coupling; Fastener; Hook; Joint; Securing Means)	24	598.4
Aircraft structure	244	131
Beehive	449	27+
Bridge truss	14	14
Carbon electrode	403	DIG. 5
Cell electrode connector	429	161
Clamp, adjustable	403	DIG. 9
Construction toy	446	85+
Cutlery handle and blade	30	340+
Drive belt combined	474	253+
Electrical	439	
Arc lamp electrode to	314	129
Battery	429	121+
Battery terminal assembling	29	246
Box with	174	59+
Brush with connector (See electric connector)	310	249
Insulated pipe joint	285	47+
Insulator with	174	145
Juxtapose & bond rails	228	101+
Lamp with	439	611+
Lamp with	313	331+
Making processes	29	825+
Meter circuit protector	324	110
Overhead cable with	174	44
Rail bond making	228	4.1+
Railway bonds	238	14.1+
Sliding contact	191	1R
Switch	200	
Telephone terminal switch	379	422+
Telephone testing	379	19
Vehicle transmission	191	
Electrical connector	439	
Design	D13	133+
Winding implement	242	7.6
Winding machine	242	7.17+
Winding method	242	7.3+
Frangible		
Brake shoe fastener	188	241
Damper release	126	287.5
Fire extinguisher	169	42
Lock	70	422
Overload release	464	32+
Reactive building component	52	232
Thermal actuated electric	337	401
Thermal electrical current	337	142+
Grating	52	665
Handle to shaft	74	548+
Intercell connector	429	160
Load-responsive release	403	DIG. 3
Magnetic	403	DIG. 1
Metal treatment	403	DIG. 2
Panel joints, readily disengageable	403	DIG. 1
Pipe shaft rod plate etc		
Flexible shaft	464	
Liquid heater tube	122	511
Packing	277	
Pipe	285	
Pipe valved	251	142+
Piston rod	403	230+
Articulated with piston	403	52+
Rail fence	256	65+
Rod	403	
Shaft end attached	403	230+
Spout attaching	222	567+
Tobacco smoking device	131	225
Wall safes	109	79
Wire fence	256	47+
Wooden joist	403	230+
Through intermediate member	403	187+
Plow	172	681+
Releasable	172	261+
Release, load-responsive	403	DIG. 3
Release, quick	403	DIG. 4
Sail	114	113
Selectional pile	405	251+
Spectacle and eye glass	351	140+
Bridge	351	133+
Temple	351	121+
Sprocket chain	474	218
Tool handle	403	
Vehicle		
Animal draft	278	
Articulated land vehicles	280	504+
Railway draft	213	
Wheel		
Land vehicle axle	301	
Railway axle	295	
Resilient tire	152	375+
Consolidated Fuel Solids	44	550+
Consolidation		
Powder metallurgy	419	38
Slip or slurry	419	40
Constant Velocity Joint	464	904+
Constrictor		
Nozzles	239	546
Trap	43	87
Contact		
Actuated		
Numbering members	101	88
Railway derailment signal or control	246	171+
Diaphragm horn rotary striker ball	116	146
Electric		
Body applicator	128	783+
Circuit makers and breakers	200	
Code transmitters rotary	178	83+
Commutators	310	233+
Composition	252	500+
Connectors	439	
Flashlight direct battery	362	203
Lamp electrode holders	403	
Lamp electrodes in	313	235
Making processes	29	874+
Railway automatic block signal	246	20+
Railway derailment signal trip	246	171+
Railway switch and signal actuation	246	218+
Rectifier	357	
Rectifier composition	252	62.3 R
Rectifier manufacture	29	25.1+
Semiconductor making process	437	180+
Process	437	
Switch contact details	200	238+
Switchboard movable	361	332+
Telegraphic keys	178	101+
Telephone electrode	381	205+
Telephone switch rotary	379	362+
Train mechanism signal or control	246	192A+
Train telephone and telegraph continuous	246	9+
Transmission to vehicle collectors	191	45R+
Gas and liquid	261	
Building ventilation	98	30
Building ventilation	98	100
Car ventilation inlet	98	17
Car ventilation inlet & outlet	98	12
Concentrating evaporators	159	
Condensers	165	110+
Defecating apparatus for sugar	127	12
Distilled mineral oil condensing	196	140
Heat exchange	261	127+
Gas or vapor with solids	34	
Agitation	222	195
Disinfecting sterilizing	422	
Pneumatic conveyor material intake	406	108+
Pneumatic conveyor material suspension	406	86+
Liquid and solid		
Beverage infusers	99	279+
Boiler or deep fat fryer	99	403+
Chemical extracting or leaching	422	261+
Cleaning and miscellaneous	134	
Cooker with basting	99	345+
Cooking fluid automatic control	99	330
Corn popping apparatus with flavoring	99	323.8
Drying processes for liquid treated material	34	9+
Filled receptacle cooker	99	359+

	Class	Subclass
Fryer,or egg boiler control	99	336
Hydraulic conveyors	406	
Pigment and vehicle in pen	401	40*
Preserving disinfecting and sterilizing	422	
Soap and water in cleaning implement	401	40*
Solid metal treating apparatus	266	114*
Textile treating apparatus	68	
Making clocks	368	164
Period electric switch	200	19R*
Point electric switch	200	275*
Preventing		
Drying apparatus	34	94
Drying processes	34	6
Printing antismut devices	101	420*
Stenciling machine internal inker	101	120
Rails	191	22DM*
Rectifier	357	
Composition	252	62.3 R
Manufacture	29	25.2
Process	437	
Rolls electrical transmission	191	45R*
Sterilization by metal	426	322
Type microphone	381	178*
Wheels electrical transmission	191	45R*
Contact Lens for Eyes	351	160R*
Applicators	294	1.2
Case or cover	206	5*
Fitting instruments	351	247
Synthetic resin compositions	523	106*
Synthetic resin or natural rubber	525	937*
Container (See Ampoule; Barrel; Basket; Can; Capsule; Holder; Receptacle; or Under Item Contained)		
Acetylene generator carbide	48	29
Acid-proof	206	524.5
Adjustable bottom	206	45.16
Metallic	220	93
Wooden	217	64
Baggage	190	
Baked cereal product container type	426	138*
Bottles and jars	215	
Design	D 9	367*
Breaking	206	601*
Cabinet structure	312	
Coupon is detachable	206	831
Dispensing	222	
Drying houses and	34	201*
Edible design	D 1	
Electrophotographic developer	355	260
Envelopes	229	
Flexible bags	383	
Food sterilizing in	426	521
Freight	220	1.5
Hermetic food packaging	426	392*
Insulating jacket	220	903
Latching-type	206	405
Loose material filler	210	263*
Manufacturing from paper	493	
Decoration article	493	955*
Pallet	493	964*
Pliable	493	916*
Rigid	493	901*
Textile	493	937*
Material	428	34.1*
Medical syringes bulb combined	604	212*
Medicator	604	232*
Metallic	220	
Opening	206	601*
Opening	206	601*
Ornamental	428	34.1*
Paperboard boxes	229	100*
Plastic metal working	72	272
Poison alarms	116	72
Separation	206	602
Sheet metal container making	413	1*
Shock protecting	206	521
Snap-opening actions	206	404
Special packaging	206	
Of coiled items	206	389*
Specialty carriers & boxes	D 3	30.1*
Open top bins, trays	D34	40*
Sterilizer apparatus	422	
Storage convertible to display	206	44R
Tearing	206	601*
Toilet kits	132	286*
Absent special toilet article, eg mirror	401	118*
Bristled brush design	D 4	130*
Toothpicks with thread supply	132	324
Toys	446	71*
Type static mold	249	117
Wooden	217	
Contamination, Reduction of	435	800*
Contour		
Non-condition responsive sorting by	209	940*
Contraceptives		
Condom	604	349
I U D	128	833
Pessaries	128	834*
Spermacides	424	DIG. 14
Control or Controller (See Operator; Pattern Control; Program; Regulator; Time, Operated & Controlled)		
Aircraft	244	75R*
Airship	244	96*
Bulldozer positioning	172	812
Car controlled fenders	293	2*
Circuit		
Clock operator	368	184
Motor system	318	
Railway signal	246	28R*
Sectional conductor vehicle transmission	191	14*
Switch	200	
Clutches and power stop control	192	
Power stop control	192	116.5*
Condition responsive metal deforming machine	72	6*
Drittage fence	256	12.5
Drill press	408	8
Electric		
Battery charging & discharging	320	2*
Car steps railway	105	444
Electric furnace	373	
Electrochemical apparatus	204	193*
Fluid pressure brake	303	20
Fluid pressure brake with fluid control	303	15*
Gear cutting	409	290*
Generator	322	
Limit stop	192	142A
Locomotive railway	105	61
Motor	318	
Motor and brake	192	1.1*
Motor and clutch	192	
Music tone generation	84	600*
Musical instrument	84	113
Musical instrument	84	171
Phonograph turntable stop mechanism	369	237
Prime mover dynamo plants	290	7*
Radiant energy	250	
Light wave	455	603
Railway block signal systems	246	20
Robot	318	568.11*
Stop mechanism	192	127
Switch	200	
Telegraphy remote control	178	4.1 R
Telephone systems	379	
Textile making	87	15
Transmission and brake	192	9
Tuner remote control	334	8*
Turntable railway	104	38
Vehicle brake	188	137*
Vehicle brake operator	188	182
Elevator	187	100*
Fluid		
Feed in solid fuel furnace	110	188*
Pressure brake systems	303	
Pressure regulators	137	505*
Valve actuation	251	
Humidity	236	44R
Lock		
Control and machine elements	70	174*
Time	70	267*
Machine elements		
Lever and linkage	74	469*
Trips	74	2*
Motor or pump (See regulator)		
Brake combined	192	1.1*
Clutch combined	192	
Pump regulators	417	279*
Motor vehicle	180	315*
Mechanism	180	315*
Radiated wave responsive means	180	167*
Velocity responsive means	180	170*
Nuclear reactor	376	207
Nuclear reactor	376	220
Nuclear reactor	376	339
Nuclear, control component	376	327
Parachute	244	152
Pipe		
Fluid pressure brake	303	86
Fluid pressure brake automatic	303	29
Fluid pressure brake automatic and direct	303	25*
Fluid pressure brake charging	303	66*
Fluid pressure brake releasing	303	81*
Power stop	192	116.5*
Press	100	43*
Robot	901	2*
Electric	318	568.11*
Speed (See speed)		
Temperature (See cooling; heating)		
Automatic	236	
Controlled Release of Medicines	604	890.1*
Conversion of Power, Electrical	363	
Conversion Reaction, Nuclear	376	156
Conversion Systems, Electrical	363	
Converter		
Bessemer	266	243*
Electric current	363	
Cryogenic	363	14
Frequency	310	160
Apparatus	310	160
System	363	157*
Heptode pentagrid	313	300
Metallurgical	266	243*
Octode	313	300
Pentagrid	313	300
Triode heptode	313	298
With two cathodes	313	6
Triode hexode	313	298
With two cathodes	313	6
Convertible (See Type of Device)		
Armchair to bed	297	115*
Auto bodies	296	
Chair	297	118*
To cane	297	118
To stacked bunks	297	62
To table	297	119*
Cutlery	30	122
Garment supporter	2	301
Horizontally supported		
Planar surfaces	108	11*
Plural seats to single bed	297	63*
Racks	211	2*
Refrigeration related	62	326*
Stand to cane	248	155*
Vehicle to chair or seat	280	30*
Walker to vehicle	280	7.1*
Converting, Mechanical Process of	29	401.1
Conveyor (See Carrier; Chute; Feeder)	193	
Air blast &/or vacumn	29	DIG. 78
Article support for label affixing	156	556*
Bearing support for roller	384	418*
Belt (See endless below)		
Acetylene generator carbide feed	48	39
Automatic gauging apertured	209	681
Automatic gauging pocketed	209	685
Automatic gauging slotted	209	665*
Coated surface separator receiver with	209	63
Magazine dispenser	221	76*
Magazine dispensing slender article	221	76*
Manual assorting	209	705
Manure spreader type	239	650*
Mattress filling	53	255*
Paper pasting strip cutter feed	156	510
Power driven	198	
Sifters	209	307*
Sifting liquid treatment	209	272
Stratifiers liquid treatment	209	428*
Textile smoothing transfer	38	8*
Butchering	17	24
Centrifugal fluid distributor feed	239	215
Chain or belt	29	DIG. 73
Chute	193	2R*
Apertures automatic gauging	209	682
Drying apparatus	34	165*
Gaseous suspension assorting	209	149
Gauging automatic by rolling	209	696
Liquid suspension assorting	209	196
Reciprocating	209	196
Stationary	209	202
Manual assorting	209	703*
Movable bed stratifiers	209	479*
Liquid treatment, spiral	209	434

	Class	Subclass
Plural destination conveyor &	198	359
Pneumatic stratifiers		
Movable bed	209	471+
Stationary bed	209	477
Pockets automatic gauging with	209	684
Power driven conveyor combined	198	523+
Stationary bed liquid treatment stratifier	209	458+
Stratifiers reciprocating	209	437+
Stratifiers rotating	209	444
Reciprocating	209	435
Chutes skids guides ways	193	
Coated surface separator receivers with	209	65+
Cooking apparatus	99	443R
Beverage infuser	99	289R
Boiler or deep fat fryer	99	404+
Corn popping	99	323.9
Filled receptacle cooker	99	360+
Griddle	99	423+
Molding support	99	427
Smoke treating	99	467+
Spit or impaling type	99	420
Toaster or broiler	99	386+
Waffle iron type cooker	99	373
Design	D34	29+
Drying		
Hollow article	34	105
Houses containers with	34	201+
Removable shelf or tray handling	34	194
Stationary receptacle with	34	179+
Treated material handling	34	236
Dumping scow platform	114	34
Egg candling	356	55+
Electrolytic apparatus work	204	198+
Endless		
Adjustable material deflector for	222	290
Bucket ditcher longitudinal	37	89
Bucket ditcher transverse	37	90
Chain	198	643
With pusher	198	725+
Container sterilizing	422	
Cooperating comminuting	241	200
Dispenser	222	415
Dispensing trap chamber on	222	371
Dragline scoop combined	414	570
Drying house plural run	34	207
Drying house single run both active	34	208
Electrolytic movable electrode work	204	202+
Endless digger	37	192R
Flexible sheet drying	34	162
Furnace type charging	414	147+
Furnace type reciprocating	414	586+
Charger combined	414	198
Gangways	14	70
Grain hulling	99	616
Hoist combined	414	564
Material deflector	222	408
Plow ditcher longitudinal	37	101+
Plow ditcher longitudinal and transverse	37	107
Plow road grader conveyor wheel combined	37	112
Plow road grader transverse	37	110
Pneumatic stacker combined	406	77+
Power driven	271	194+
Product remover	83	155.1
Rotary digger	37	190
Self loading excavating vehicle	37	8
Sheet delivering	271	198+
Sheet delivering to curtains	271	67
Sheet delivering to flies	271	66+
Sheet delivering to other conveyors	271	69+
Sheet feeding	271	264+
Sheet feeding and delivering	271	7
Sheet feeding and separating	271	12+
Sheet feeding delivering and separating	271	6
Vehicle unloading external	414	373+
Horizontal movement	414	353
Reorienting support	414	356
Repositioning support	414	351
Wheel excavator longitudinal	37	96
Wheel excavator transverse	37	97
Excavator	37	
Ditchers	37	80R+
Railway snow	37	208
Road grader	37	108R+
Roadway snow	37	237+
Flexible	29	DIG. 99
Fluid current	406	
Boiler or deep fat frying	99	406
Diamagnetic separation of solids	209	212
Drying apparatus treated material	34	57R
Drying process material suspension or	34	10
Electrostatic separation of solids	209	127.1+
Fluid conveyor or applicator	29	DIG. 63
Fluid handling system cleaners	137	238+
Insect dusting machine with	43	141
Insect powder dusters	239	650+
Mortar mixer processes	366	3+
Mortar mixers	366	10
Paramagnetic separation of solids	209	213+
Railway snow excavator	37	202
Rotary meat comminutor combined	241	38+
Sand blast abrading	51	410+
Separating operations combined	209	12+
Separation of solids	209	132+
Separation of solids by adhesion	209	45+
Separation with heat treatment	209	11
Sheet delivering	271	306
Sifting	209	233+
Solids comminuting apparatus with	241	38+
Solids comminuting processes with	241	15+
Strand or web feeding	226	97
Stratifiers	209	422+
Track sander pipe cleaning	291	43
Track sanders	291	3+
Treatment precedent to separation	209	3+
Treatment subsequent to separation	209	10
Fluid pressure testing for leakage	73	41+
Garbage and sewage furnace	110	255+
Gas as a	29	DIG. 81
Gaseous suspension assorting feeding	209	147+
Glass annealing	432	121+
Harvester		
Cutting binding combined	56	131+
Cutting combined	56	153+
Cutting threshing combined	56	122+
Marine	56	9
Motor cutter and detachable	56	3+
Motor cutter combined	56	14.5
Heat exchange	165	120+
Chamber	165	120+
Linear motor	198	619
Liquid suspension assorting feeding	209	184
Liquid treatment stratifiers rotating with	209	452
Liquid treatment stratifiers stationary with	209	461+
Lubricator	184	12
Force feed	184	61+
Systems	184	6+
Material for	198	957*
Mining machine	299	64+
Moving wave	198	630
Potato digger spiral	171	113
Power driven	198	
Press combined	100	144+
Quencher for thermolytic distillation	202	230
Receptacle positioning for filling	141	129
Reciprocating		
Discharge assistants sets of	222	275+
Dispensing	222	409
Dispensing trap chamber	222	361+
Furnace charging	414	194
Furnace fuel feed	110	109
Plural source dispensing unitary	222	137
Power driven	198	750+
Pusher	198	736+
Power driven pusher	198	736+
Series discharge assistants	222	243+
Rotary and	222	233+
Sheet delivering	271	84+
Sheet feeding	271	267+
Sheet separating and feeding	271	14
Thermolytic distillation	202	119
Transverse to material flow	222	200
Vibrating dispenser bottom	222	199
Vibrating trough	198	750
Refrigeration combined		
Cooled article	62	378+
Door mounted	62	377
Process	62	62+
Solid refrigerant	62	379+
Residue or sediment mover	210	523+
Roaster type combined peeler or parer	99	483
Robot cooperating with	901	7*
Roller	193	35R+
Live rolls	198	780+
Rotary	198	624
Rotary		
Acetylene generator carbide feed	48	48+
Discharge assistants sets of	222	271+
Dispensing	222	410+
Dispensing trap chamber	222	367+
Drying apparatus	34	184+
Electrolytic with work	204	199+
Gravity flow dryer with	34	166
Heat exchange cylinder with	165	120+
Heat exchange horizontal	165	88
Heat exchange vertical	165	89+
Mercurial adhesion separating	209	70
Power driven	198	
Rotating drum sifter	209	296
Series dispensing means	222	236+
Series dispensing means reciprocating and	222	233+
Sheet delivering	271	314+
Sheet feeding	271	275+
Scales combined	198	502.1+
Screw	198	657+
Acetylene generation carbide feed	48	54
Cam or screw conveyor	29	DIG. 1
Centrifugal fluid distributor feed	239	218.5
Ditcher	37	82
Earth boring tool	175	394+
Furnace fuel feeder	110	110
Pneumatic conveyor feed	406	56+
Potato digger	171	134
Rotary discharge assistant	222	412+
Series rotary discharge assistants	222	240
Thermolytic distillation	202	118
Self loading vehicle	414	467+
Sheet feeding and delivering	271	
Sifter	209	261+
Discharging	209	257
Discharging and valve	209	256
Feeding	209	247+
Feeding and discharging	209	241
Feeding hopper	209	245
Plane reciprocating with	209	320+
Rotating drum combined	209	293+
Superposed plane with intermediate	209	316
Store service	186	
Thermolytic distillation retort	202	117+
Threshing machine dust	460	117
Thrower	198	638+
Furnace charging	414	193
Scattering unloader	239	672+
Track sander	291	32
Transversing wall aperture	198	950*
Turning cigarettes end for end	198	951*
Typesetting machine	276	16+
Washer type combined peeler or parer	99	623+
Washing apparatus having		
Brushing scrubbing etc	15	3+
Liquid contact with solids	134	
Washing apparatus having endless	137	124+
Bottle brushing	15	60+
Control by work or work holder	134	48
Sequential stations work transfer	134	67+
Work transfer	134	70+
Wood cutting machine dust	144	252R
Wooden flight making machine	144	10
Convolute Wind	242	
Laminated article making	156	
Paper tube machine	493	303+
Cooker & Cooking		
Barbecue unit	D 7	332+
Commercial equipment	D 7	323+
Digester	422	307+
Electric ovens	219	391+
Electric vessels	219	438+
Electric vessels and stands	219	429+
Food	99	324+
Non-cooking heat treatment	99	483
Heat source	D 7	362+
Household appliance	D 7	323+
Household container	D 7	354+

	Class	Subclass
Induction heated	219	10.493
Popcorn	D 7	325
Solar	D 7	324
Solid fuel	D 7	332
Starch	127	28
Stoves	126	
Cookie Cutter	D 7	672
Coolant	102	704*
Cooler & Cooling (See Congelation; Quenchers; Refrigeration)	62	
Abrasive tool or support	51	356
Air	62	404+
Automatic	62	186+
Process	62	89+
Air conditioning equipment	D23	351+
Article in dispenser	221	150R
Automatic cooling and heating	165	14
Bearings	384	313+
Beds	5	284
Metal rolling	72	251
Body	604	113+
Treating material	604	113+
External	604	291+
Brakes	188	264R
Cabinet combined	312	236
Castings	164	122+
Continuous	164	443+
Chemical reaction or solids dissolving	62	4
Cleaning or polishing tool or support	15	230.1
Clutches	192	113R
Coating treatment	427	398.1+
Compositions	252	70
Antifreeze type	252	71
Vaporization or expansion	252	67+
Congealed material drying	34	5
Control	236	
Cooling and heating apparatus	165	58+
Conveyer art	198	952*
Design	D23	
Towers	261	DIG. 11
Discharge nozzle	239	132.3
Reaction motor	239	127.1+
Dispenser	222	146.6
Distillate	203	
Apparatus combined	202	
Drying combined with	34	13
Cold gas contact	34	20
Cooling means	34	62+
Vapor condensers	34	73+
Earth boring combined	175	17
Electric lamp	313	11+
Electric lamp or electronic tube in system	315	112+
Electrical apparatus	174	15.1+
Electron tube	313	11+
Emulsion breaking by	252	346+
Evaporation, cooling by In hydrocarbon synthesis	585	940*
Fluid handling systems or devices with	417	243+
Discharge nozzles	239	132.3
Foundry mold	164	348
Furnace	432	233+
Arc, electrical	373	74
Sidewall	373	76
Design	D23	329
Doors or casings	110	180
Doors or fronts by water	122	497+
Electrical induction	373	165
Coreless	373	151+
Industrial by water	122	6R+
Metallurgical shaft type	266	190+
Resistance, electrical	373	113+
Fusion-bonding apparatus combined	228	46
Gas and liquid contact	261	127+
Glass manufacturing		
For apparatus	65	355
Melt cooling	65	137
Product cooling	65	348
Grinder	51	266+
Heating combined or by heat exchange	165	
Humidity regulation	236	
Light projectors	362	294
Liquid	62	389+
Automatic	62	177+
Discrete commodity contacting	62	373+
Indirect heat transfer liquid	62	430+
Process	62	98+
Liquid purification	210	774+
Apparatus	210	175+
Precipitation	210	737
Lubricators	184	104.1
Material during filling	53	127
Milk treating apparatus	99	455
Mold stereotype	164	144
Mold type	199	56
Motor or pump		
Combustion products power plant	60	39.83
Compressor intercooler	417	243
Condensers	165	110
Electric locomotive	105	59
Internal combustion	123	41.1+
Land vehicle system	180	68.4+
Marine propulsion	440	88
Power plant combustion exhaust	60	310
Power plant combustion exhaust	60	317
Power plant combustion exhaust	60	320+
Power plant combustion exhaust	60	685
Power plant flue ejected exhaust	60	685+
Radiator	165	121+
Shaft coupling	464	17
Turbine	415	175+
Needle of sewing machine	112	281
Nozzles	239	132.3
Reaction motor discharge	239	127.1+
Pipe joint	285	41
Pipe smoking	131	195
Plastic: metal working	72	253.1+
Power plant X-art	60	912*
Radio type tubes		
Integral cooler	313	11+
Rolling mill	72	201
Sewage treatment process	210	612+
Tires	152	153
With comminution	241	65
By fluid or lubricant and other methods	241	17
By fluid or lubricant method	241	15
By gas or vapor method	241	18+
Fluid applying means	241	38+
Material cooling means	241	65+
Material cooling methods	241	23
Work holder electric metal heating	219	158+
X ray generating apparatus with	378	141
X ray tubes	313	11+
Cooling Tower	261	
Ice prevention	261	DIG. 86
Coop	119	19
Coopering (See Barrels)	147	
Coordinate Determination	367	907*
Cop and Cop Winding	242	18R+
Bobbins or spools	242	118.3+
Filling receptacles with	53	235+
Finishing apparatus	28	284+
Sorter	209	927*
Wound packages	242	159
Copal	530	203
Sand type	164	349+
Making	164	6+
Copier and Copying		
Electrophotographic	355	200+
Coping	52	300
Earth supported	52	102
Tubular	52	244
Copper		
Alloys	420	469
Aluminum	420	489
Compound inorganic	423	
Biocidus containing	424	630+
Cuprates	423	592+
Halides	423	462+
Hydrocarbon purification by	585	849
Oxide or hydroxide	423	604
Photoelectric cell battery	136	265
Compound organic	556	110+
Medicine	514	184
Electrolytic synthesis	204	106+
Froth flotation	209	901*
Heat treatment	148	160
Special compositions	148	13.2
Hydrometallurgy	75	711+
Misc. chemical manufacture	156	DIG. 76
Plate	428	674+
On iron	428	676+
Plating	204	52.1
Pyrometallurgy	75	638+
Combined with hydrometallurgy	75	416+
Copy		
Advancing means	226	168+
Electrophotographic copy	355	200+
Holders (See copyholders)	248	441.1+
Advancing means	226	12
Multiple	282	9R+
Photocopying equipment	D18	36+
Copyholder	248	441.1+
Card holder on typewriter	400	521+
Electrophotographic copier	355	72+
Electrophotographic copier	355	230+
Guide static for moving copy	226	196+
Line guide type	40	352+
Movable copy	40	342+
Sheet or web holder on typewriter	400	578+
Typewriter attachable	248	442.2
Copying (See Pattern Control)		
Camera	355	18+
Coated surface	427	144
Compositions	106	14.5
Machines (See pattern control)		
Pads and forms	118	264+
Paper or carbon paper	282	28R
Coated	427	153+
Photocopying machines	355	
Planographic		
Apparatus	101	131+
Elements	101	473
Processes	101	468+
Presses		
Design	D18	13+
Wood turning	142	7+
Cord (See Strand)		
Electric (See conductor)		
Fabric		
Bed bottom	5	190+
Braided netted or lace	87	
Hammock	5	122
Knitted	66	169R+
Woven	139	383R+
Fastener or tie	24	115R+
Bale or package	24	18
Box closure	229	125.22
Flexible bag	383	71
Garment supporter	2	341+
Hat	132	61
Knotter combined	289	
Necktie	24	58
Design	D 2	607
Sash	16	202+
Separable	24	660
Window sash combined	49	445+
Finishing apparatus	28	219+
Guide	254	389
Knotter combined	289	15
Reeling	242	157R
Sash	16	210+
Hat	2	189
Opener, terr member	206	616+
Operating (See device operated)		
Packaging	28	289+
Pliant, deformable sheet retainer	402	8+
Shortener (See take up)		
Spun twisted or twined	57	
Spun twisted or twined design	D 5	7+
Straightener		
Electric conductor type	174	69
Insulator combined	174	154
Spring device	267	74
Telephone cord type	379	441
Supporting		
Light type	362	407
Package and article carrier	294	149+
Picture frame combined	40	153
Picture type	248	489+
Sash balance	16	193+
Sheet retainer also serves to insert binder strand thru sheet	402	7
Tool cord type	248	51+
Terminal	439	775+
Tire		
Antiskid devices	152	221+
Carcass material	152	548
Carcass material arrangement	152	558
Making	156	117
Tying or knotting	289	
Harvester compressing and binding	56	433+
Harvester raking and bundling	56	343
Winding and reeling	242	47+
Cordless Detonant	102	275.1+
Composition	149	105+
Corduroy	139	392
Core (See Casting, Plastics; Mandrel)		
Assembling apparatus	29	234

	Class	Subclass
Box	164	228+
Planes	30	479
Sections hinged	164	233
Brush and broom	15	204+
Casting		
Boxes	164	228+
Cement pipe mold	425	59+
Cement pipe mold	425	406+
Chaplets	164	398+
Materials	106	38.2+
Means to expand or contract	249	178+
Metal founding sand	164	369+
Molds metal separable	249	142+
Molds sand combined	164	365+
Of plural sections	249	184+
Of resilient material	249	183
Plastic molds	425	468
Removing	164	132
Removing apparatus	164	345+
Static mold	249	175+
Cutters auger type	408	199+
Cutting		
Annular drills	408	204+
Button making	79	16
Earth	175	403+
Tubular wood saw	408	204+
Wood disk	408	204+
Dam	405	109
Deforming metal		
Destructible core	72	57+
Flexible core	72	466
Distillation retort	202	225
Electromagnet	335	297
Circuit breaker armature	335	281+
Circuit breaker multiple	335	180+
Flexible for tube bending	72	466
Magnetic		
Electromagnet with armature	335	220+
Reactor	336	233+
Transformer	336	233+
Materials	106	38.2+
Molding machines for foundries	164	228+
Nuclear reactor	376	347
Nuclear reactor	376	409
Pile driving type	405	245+
Pillow	5	439
Plates for storage batteries	429	209+
Railway pedestal block	238	117
Reeling fabrics	242	68+
Screw threading taps		
Cam	408	158
Wedge	408	179
Static mold having		
Removable	249	142
Strand structure covered	57	210+
Supports	164	397+
Textile covering processes	57	3+
Textiles covering	57	3+
Tires casing enclosed	152	310+
Corer		
Hand manipulated	30	113.1+
Plural cooperating blades	30	174
Machine	99	547
Doffer parer combined	99	541+
Doffer parer segmenter combined	99	543
Parer combined	99	541
Parer slicer combined	99	543
Parer slicer combined	99	592
Segmenter combined	99	545
Slicer combined	99	552
Cork		
Board making	264	124
Bottle stoppers	215	355+
Coating or plastic compositions containing	106	204.1
Fastener making	140	85
Hoof covering	168	26+
Paving	404	17+
Polymers ctg (See synthetic resin or natural rubber)		
Press	144	284
Pullers	81	3.7+
Removing implement	D 8	42
Wire applying to	140	94+
Corkscrew	81	3.45
Hayfork manipulator	294	121
Making	140	86
Corn		
Cob splitter	225	93+
Ear holder	294	5
Files	132	76.4
Foods	426	627+
Flakes	426	621
Grinding	241	
Harvesting	56	51+
Holder for eating	D 7	683
Husking		
Machines	460	25
Means to butter ear corn	401	12
Medicines for	424	
Pads for	128	882
Planter	111	
Clutches	192	23
Popping apparatus	99	323.5+
Shellers	460	45+
Green corn	99	567
Stringers weaving	139	19
Stripper	30	121.5
Corncob		
Pipe	131	230
Splitter	225	93+
Corneal Cutting Device	606	166
Corner		
Building component	52	272+
Concrete or plaster	52	250+
Embedded protector	52	254+
Panel edge binder	52	264+
Trim or shield	52	288
Window frame post	52	282
Cabinets	312	238
Connector		
Folded wall extension	229	190+
Folded web	229	186+
Structure		
Bedstead fastenings	5	288+
Block	52	284+
Bolted table leg	108	156
Bracket type support	248	220.1
Building component	52	272
Coffins	27	10
Curbs and gutters	404	8
Elastic flat bedbottom	5	205+
Land vehicle body	296	29+
Panel type switchboard	361	362
Razors	30	76
Resilient tires sectional	152	183
Trunk shields and buffers	190	37
Cornet	84	388+
Design	D17	11
Drainage	84	397
Mouthpieces	84	398+
Mutes	84	400
Tremolos	84	401
Cornice		
Curtain shade or screen combined	160	19+
Design, fabric	D 6	575
Design, rigid	D25	55
Design, structural	D25	55
Metal sheathing	52	287
Trim or shield	52	288
Corona		
Discharge photography	354	3
Discharge process	430	937*
Chemical apparatus	422	907*
Electrophotographic copier	355	221
Electrophotographic copier	355	274+
Prevention		
Conductors	174	127
Dynamos	310	196
Corpse		
Carriers	27	28
Coolers		
Display type	62	246+
Open support	62	458
Cremating furnace	110	194
Undertaking	27	
Corrosion Preventing		
Agents	252	387+
Coating composition	106	14.5+
Distilling combined	203	6+
In hydrocarbon synthesis	585	950*
In nuclear reactors	376	305
Mineral oil conversion combined	208	47
Processes	422	7
Refrigeration with	62	85
Corrugated Structure		
Building panel	52	630
Metal	428	603+
Pipes		
Flexible	138	121+
Reinforced	138	173
Railway ties	238	82
Receptacle wooden straps for	217	67
Reflector lantern combined	362	297+
Sheet metal	428	603+
Ship	114	80
Stock material	428	179
Making apparatus	156	205+
Making process	264	286+
Wrappers for bottles	229	90
Corrugating (See Crimping)		
Land furrowing implement	172	
Metal	72	190+
Curving and	72	177
Slitting and	29	6.1
Tube	72	102+
Web or sheet	72	196
Paper		
Crepe paper making	162	111+
Processes for	264	286+
Plastic & earthenware shaping	425	396
Ruffler for sewing machine	112	132+
Corsage	D11	117+
Corset	450	94
Combined with brassiere	450	7+
Design	D 2	3
Covers	2	110
Design	D 2	2
Making	223	53
Reinforcing	223	4
Corticosterone	552	588
Cortisone	552	577
Cortisone, in Drug	514	179
Corundum	423	
Abrasive composition	51	309
Refractory composition	501	127+
Magnesium compound containing	501	119
Corynanthine	546	53
Cosmetic Product	D28	4+
Applicator, bristled brush	D 4	
Applicator, general	D28	7+
Box	206	542
Brush	D 4	
Cold cream	514	772+
Compacts	401	126+
Design	D28	78
Facial	514	844*
Including toilet article	132	286+
Eg mirror	132	316
Compact	132	301+
With light	362	135+
Lipsticks	424	64
Container	206	385
Lipstick in container	D28	76+
Package for	206	803*
Powder applicator	D28	8
Powder in container	D28	76+
Shaped appliers	132	320
Design	D28	76+
Cosmic Ray Detection	250	336.1
Cloud chamber	250	
Detector tubes	376	153+
Detector tubes	313	93
Photographic film	250	475.2
Scintillation	250	361R+
Costume	D 2	79
Garment prior to 1900	D 2	26
Cots	5	110+
Canopies	5	414+
Cotter	411	513+
Nut locks		
Design	D 8	382
In bolt to nut lock	411	213
In bolt to nut lock	411	320
Making	29	5
Pullers	29	247+
Railway car wheel	295	50
Shaft joint type	403	378+
Slot punching	10	14
Cotton		
Chopper type plows	172	
Fiber preparation	19	
Harvesting	56	28+
Ripening	47	5
Cotton Cody Maker	425	9
Couch		
Box type	297	192+
Furniture design	D 6	334
Hammock	5	124+
Kinestherapy	128	33
Light thermal and electrical applying	128	376+
Orthopedic	128	70+
Roll	162	314

	Class	Subclass
Tub combined	4	547
Coulombmeter		
Ballistic galvanometer	324	97
Electrolytic	324	94
Coulter	172	165
Planting machine	111	140
Coumarins	549	283
Coumarone	549	434
Resins (See also synthetic resin or natural rubber)	526	266
Counter & Counting (See Recorders; Registers; Shelf & Shelving; Tally; Showcase)	D10	97
Alarm for operation	116	73
Applications	377	1
Bank protection trapping mechanism	109	4
Blood	377	10
Cabinet type	312	140.1+
Check-out counter	186	59+
Coin	453	58+
Box	235	100
Decade		
Electronic tube type	377	103
Gas tube	315	
Electromechanical	377	82
Electromotive force generator excitation control	322	86+
Electronic	377	
Faucet operation	235	94R
Geiger muller	250	374+
Indicating means	377	112
Tube per se	313	93
Mechanical	235	
Mechanism for package	235	98R
Mechanism for turnstiles	235	93
Nuclear for fluid	250	336.1
Railway block signal in-and-out	246	77+
Railway car actuated circuit control by	246	247
Recorder combined	346	14R+
Registers	235	
Rotation	235	103+
Scintillation	250	361R+
Sheets	235	89R
Shoe	36	69
Showcase	312	114+
Cabinet type	312	140.1+
Protectors and guards	312	137
Stiffener		
Boot and shoe	36	68
Shoe heel and	36	69
Systems	377	27
Typewriter words	235	102
Counterbalance (See Counterpoise; Counterweight)		
Adjustable bracket with	248	274+
Cable hauling drum with	254	312
Centrifugal metal casting device with	164	287
Closet seat	4	241
Crane	212	195+
Cranks and wristpins	74	603+
Cultivator beam seat	172	431+
Electric lamp etc electrode	314	98
Elevator	187	94
Pedals	74	594.5
Pitman and connecting rod	74	589+
Railway cable car	104	174+
Railway wheels with	295	6
Robot	901	48*
Spring biased tool	172	705+
Stand and adjustable bracket	248	123.1
Standard type support adjustable with	248	162.1
Suspended support adjustable with	248	323+
Upending bed	5	164.1+
Valves	251	281+
Weighted tool	172	611
Weights per se	16	1C
Weights support type	248	364
Counterbore		
Boring head	408	223+
Counterpane	5	482
Counterpoise (See Counterbalance)		
Disappearing gun mount	89	39
Oval pattern lathe chucks with	142	51
Radio antenna	343	846+
Countersink		
Augers	408	223+
Drill combined	408	223+
Pipe and plate packed joint	285	211+
Reamers	408	223+
Screw pipe joint external packing and	285	349+
Screws	411	378
Countertop		
Tile	D23	308
Counterweight (See Counterbalance)		
Carcass splitting saw	17	23
Chute	193	24
Chute vertical swing	193	18+
Drilling machine	408	235
Elevator fluid governors	187	70
Grinder mount	51	166R
Light supports with	362	401+
Material handling hoist	414	601
Material handling hoist with	414	673
Railway car stop bumpers with	104	255
Railway switch and signal mechanical locking with	246	153+
Railway switch stands automatic with	246	288
Sash	16	216+
Sash balances cord and	16	194
Suspended support with	248	331
Vertically swinging shovel with	414	719+
Couple		
Delivery twist textile spinning	57	60+
Strand controlled starting and stopping	57	82
Printing	101	183+
Coupler for Organ (See Organ)		
Coupling (See Connection)		
Agricultural implement to tractor	280	504+
Bolt or nut substructure	411	81+
Bolt to nut	411	190+
Boxes to electric fixtures	174	61+
Circuit	333	24R+
Cord and cable		
End holders	24	115R+
Slip tension reliever	114	216+
Detachable from container	206	831
Draft		
Articulated land vehicle	280	504+
Cable	104	193
Horse drawn streetcar	278	2.1
Plow type	172	677+
Railway	213	75R+
Railway tools	294	18
Thill	278	52+
Electric		
Amplifier (See amplifier)		
Brake	310	93
Circuit	333	24R+
Clutch type	310	92+
Network type	333	24R+
Wave guide	333	202+
With antenna	343	850+
Fluid	60	325+
Clutch combined	192	3.21+
Gearing combined	74	730.1+
Impeller making	29	889.5
Planetary gearing combined	475	31+
Rafting and booming timber type	441	50+
Railway tools	294	18
Railway wheel and axle	295	39+
Rod pipe and shaft		
Closet bowl	4	252R+
Dredger pipe supports	37	72
Electrical pipe type	439	191+
Flexible shaft	464	
Nozzle type dispenser	222	567+
Packing	277	
Pipe type	285	
Railway draft pipe support	368	15+
Rod type	403	
Scaffolding pole	403	
Sprinkler pipe	239	266+
Strainer and pipe	4	288
Valved pipe	60	530+
Coupon		
Envelope	229	70
Tallies	283	51+
Course for Animals	119	15.1+
Cover (See Closure; Covering; Guard; Lid; and Notes To))	150	154
Ampoule stem	81	3.4+
Article carrier (vehicle attached)	224	42.2
Roof or trunk	224	328
Automobile	150	166
Engine attached drip catcher type	180	69.1
Ball hitch	280	507
Barrel	217	81
Baseball field	273	27
Bed (sheet, blanket, bedspread, etc.)	5	482+
Electric blanket type	219	212
Beverage container	428	
Insulating jacket type	220	903
Bicycle	150	167
Boat	114	361
Body entering conduit	604	192+
Body treating insert	604	287
Boiler	122	494
Book	283	64+
Design of cover	D19	26+
Indicia on cover	283	64
Removable book	281	19.1+
Boring bit (earth penetrating)	175	307
Broom or brush	15	247
Building (materials cover, ground anchored, etc.)	52	3
Button	24	113R
Camera	206	316.2
Can, beverage	428	
Insulating jacket type	220	903
Car	150	166
Christmas tree	206	423
Clothesline	211	119.18
Coffin	27	19
Corset	2	110
Design of cover	D 2	122
Cutlery	30	326
Cutting bit (earth penetrating)	175	307
Cutting blade	30	504
Dentists engine hand piece (during use)	433	116
Engine or motor	150	157
Engine attached drip catcher type	180	69.1
Filter type cover	55	490+
For liquid purification	210	500.1+
Fishing rod or reel	43	26
Floor (carpet)	428	85+
Flower pot (decorative wrapper)	47	72
Faucet	150	158
Fluid handling device	150	156
Furniture	150	158
Armrest	297	227+
Bed (sheet, blanket, bedspread, etc.)	5	482+
Electric blanket type	219	212
Billiard and pool table	273	13
Chair and seat	297	219+
Design of cover	D 6	617+
Table	108	90
Garment hanger	223	98
Golf bag or cart	150	159
Golf club	150	160
Gun	206	317
Barrel	42	96
Sight	33	244
Stock	42	74
Hand grip	16	DIG. 12
Hand tool	150	161
Handle of operating mechanism	74	558.5
Handlebar	74	551.9
Headlight	150	166
Hinge	16	250+
Hitch ball	280	507
Hot water bag	383	901
Therapeutic structure	128	403
Hydrant	137	296
Ice bag	383	901
Ice skate	206	315.1
Boot attached cover	280	811
Scabbard	280	825
Ironing board	38	140
Keyhole	70	455
Knob on a closure fastener	292	DIG. 2
Lamp shade	362	351
Lock	70	55
Luggage	190	26
Machine mechanism guard type	74	608+
Motor	150	157
Engine attached drip catcher type	180	69.1
Motorcycle	150	167
Paint mask type	118	504
Person (hat, coat, etc.)	2	
Building	52	
Design of cover	D 2	
Knit wearing apparel type	66	171+
Leggings type	36	1.5
Tent or canopy type	135	87+

	Class	Subclass
Piano	84	177
Pillow	5	490
Pipe end (conduit type)	138	96R*
Plant	47	28.1*
Cut or artificial plant	206	423
Platen	355	72*
Electrophotographic copier	355	230*
Playing field (baseball)	273	27
Pool table	273	13
Protective for cigarette pack	D27	186*
Protective for matches	D27	173*
Purse (decorative cover)	150	105
Racquet	150	163
including press	273	74
Radiator	237	79
Railcar step	105	450
Receptacle	150	154
Roller skate	206	315.1
Boot attached cover	280	811
Scabbard	280	825
Sap bucket	47	54
Saw	150	161
Rigid guard type	30	504
Sewing machine	150	164
Design of cover	D15	75
Housing attached cover	312	208
Shelf (covering)	428	904.4
Shoe (during manufacture)	36	72R*
Bag type	383	
Special receptacle type	206	278*
Skate (roller or ice)	206	315.1
Boot attached	280	811
Scabbard	280	825
Ski	206	315.1
Binding	150	154
Body supported	224	191*
Clamp or tie attached to ski	280	814*
Vehicle supported	224	309*
Soap (porous cover)	401	201
Sponge	15	244.1
Spoon	30	326
Stair	52	177*
Steering wheel	74	558
Stirrer	366	349
Suitcase	190	26
Surgical drape type	128	849*
Thermal probe	374	209
Swimming pool	4	
Building type	52	
Switch actuator	200	333
Table	108	90
Tarpaulin	52	3*
Telephone	379	451*
Tent or canopy	135	115
Thermal probe	374	209
Tire or inflated inner tube	206	304*
Design of cover	D12	202
Vehicle attached tire	224	42.2
Toilet (tank or seat)	4	661
Design of cover	D23	311
Seat	4	242*
Trailer hitch ball	280	507
Tree	47	20*
Christmas tree bag type	206	423
Trunk guard type	47	23*
Typewriter	150	165
Design of cover	D18	12
Housing attached cover	312	208
Umbrella	135	33R*
Vault pavement type	404	25*
Design	D25	36
Vehicle	150	166
Body (while in operation; including a "bra")	280	770
Engine attached drip catcher type	180	69.1
Load	296	100*
Design of cover	D12	156
Motorcycle or bicycle	150	167
Roll up type	296	98
Tire	206	304*
Design of cover	D12	202
Vehicle attached tire	224	42.2
Wall (wallpaper)	428	904.4
Washing machine	68	196
Water heater		
Boiler structure	122	494
Electrical	219	
Tank	220	
Window	150	168
Rigid cover sections	160	370.2
Vehicle combined	296	95.1
Windshield	150	168
Rigid cover sections	160	370.2
Vehicle combined	296	95.1
Wire coil	206	303
Wooden container	217	3CV
Barrel	217	81
Coffin	27	19
Covering (See Apparel; Clothes; Coating; Garment)		
Applying by laminating	156	
Bridge	14	74
Floor		
Carpet	428	85*
Laminated	428	54
Slatted	52	664*
Insulating for electric conductors	174	
Making and applying	156	
Button covering	79	4*
By laminating	156	
Extruding metal sheath on wire	72	268
Extruding plastic on core	425	113
Indefinite length electrical conductor	156	47*
Metal covering	29	33.2
Paper	493	
Sheath to tube or rod	228	126*
Shoe heel	12	49.1
Strap	12	59
Textile spinning	57	3*
Wire	29	428*
With sheet metal	29	243.57
Shelf	428	904.4
Stair	52	177*
Wall	428	904.4
Covert	139	416
Cowl		
Ventilating	98	61
Design	D23	374*
Intake and outlet	98	35
Crack-off	225	
Glass	225	94*
Cracker		
Firecracker	102	361
Food	99	
Design	D 1	128*
Cracking		
Hydrocarbon synthesis		
Aromatic	585	483*
Diolefin	585	613*
Olefin	585	648*
Paraffin	585	752
Triple bond	585	534*
Oils	208	46*
Electrostatic or electric discharge	204	172
Crackled Coating	427	257
Crackled Glass Making	65	111
Cradle		
Battery	429	96*
Bed	5	101*
Design	D 6	382
Grain	56	324
Land vehicle convertible	280	31
Receptacle stand	248	139
Squeezer type washing machine	68	114
Cramps		
Block tie	52	712*
Crane (See Derrick)		
Automatic control	212	153*
Cut-off	212	149*
Cyclic	212	161
Sway	212	147*
Cab	212	165
Travelling bridge	212	206
Collapsible	212	182*
Cornstalk cutter with discharger	56	72*
Counterweight	212	195*
Removable	212	178*
Davit	114	368
Design	D34	33
Electric control	212	124*
Excavator with cable operated boom	37	116
Floating	212	190*
Invalid lift	5	87
Locomotive with turntable	105	28
Material or article handling	414	561*
Remote or dual control	212	160
Rotary	212	223*
Self-erecting	212	176
Climbing	212	199*
Ship mounted	212	190
Transmission of electricity to	191	
Traveling	212	71*
Bridge	212	205*
Trolley type railway with transfer	104	98
Trucks for overhead	105	163.1*
Vehicle mountable	212	180
Window	49	148
Crank		
Foot operated	74	594.1
Hand lever	74	545*
Mechanical movement including	74	
Operated (See device operated)		
Paddle		
Impeller	416	78
Marine	440	26*
Water motor	416	78
Pedals combined	74	594.1*
Velocipede design	D12	123
Wrist pin combined	74	595*
Crankcase		
Breathers	92	78*
Drainers	184	1.5
Housings	74	606R
Internal combustion engine	123	196CP
Crankshaft		
Bearing		
Antifriction	384	457
Plain	384	429*
Thrust	384	250
Lapping	51	73R
Making		
Apparatus	29	6.1
By turning	82	106*
Method	29	888.8
Straightening	72	389*
Twisting	72	299
Methods	72	371
Crash		
Fabric	26	26
Seat	297	216
Signal for airplane		
Radio	342	385*
Water dye	116	211
Crate	D 9	414*
Animal neck stocks combined	119	99
Animal shipping, design	D30	109
Fermentation apparatus	435	287*
Freight car combined	105	373
Shooks	217	43R
Wooden receptacle	217	36*
Cravats	2	144*
Fasteners	24	49R*
Crayon	401	49*
Compositions	106	19
Holder	401	88*
Advancing means combined	401	55*
Modifying thermometers	374	183*
Molding device	425	117
Molding device	425	425
Cream		
Cold	514	772*
Separating and gas	55	189*
Separating decanter	210	514*
Separators	D 7	369*
Treating processes	426	334*
Whipping	261	DIG. 16
Cream of Tartar	562	585
Baking powder	426	562*
Creaming Latex		
Natural rubber	528	937*
Synthetic or natural rubber	523	335
Creasar (See Folder)		
Boot and shoe making		
Loose upper shaping	12	54.1
Box, cut and crease	493	59*
Envelope	493	186*
Horseshoe	59	36*
Plaiting fluting shirring and cross creasing	223	29
Sewing machine	112	131
Leather	112	51
Creche	D11	122*
Credit Card Systems	235	380*
Creel (See Basket)		
Bobbin supporter and holder	242	131
Fishing	43	55
Design	D 3	38
Creeper		
Antislip shoe attachment	36	59R*
Baby	297	5*
Electric wire placing	254	134.5*
Horseshoe calk	168	30

	Class	Subclass
Repairmans	280	32.6
Cremation Furnace	110	194
Crematory Urns	27	1
Design	D99	5
Creosote	568	716
Crepe Paper	428	153*
Making	264	282
Creping		
By mechanical manufacture	28	155*
Cellulose fibers	8	117
Differential	8	114.5
Cresidine	564	443
Creslan T M (polyacrylonitrile Copolymers)	526	342
Cressol	568	716*
Cresotinic Acid	562	475
Cresting	52	57
Crib		
Bed	5	93.1*
Design	D 6	382
Blanket design	D 6	603*
Chair convertible	297	7*
Infant, powered	180	166
Land vehicle convertible	280	31
Storage, with changing or discharging means	414	288*
Cribbage Board	235	90
Design	D10	46.1
Cribbing	405	273
Shaft	405	272
Crimped		
Filament compound metal	428	603
Filament fiber or strand	428	369*
Staple length fiber	428	362
Metal closure	220	309
Twisted and coated or impregnated	57	250*
Twisted synthetic	57	247
Crimping (See Corrugating)		
Ammunition loading	86	39*
Apparatus textile strands	57	282*
False twist	57	282*
Miscellaneous strands	28	247*
Plastic filaments	425	66
Plastic filaments	425	303
Plastic filaments	425	325*
Twisting and coating or impregnating	57	286
Barbed wire	140	59*
Boot and shoe making		
Loose upper shaping	12	54.1*
With diverse operations	12	52.5
Box edge making	493	109
Cigar or cigarette end forming	131	89*
Closure cap structure	215	324*
Glass reshaping apparatus	65	269*
Hair crimper	132	224*
Design	D28	35
Process	132	210
Metal bending by rolls	72	199*
Paper in wrapping machine	53	370
Paper receptacle end structure	229	5.6
Pie making implement	425	293
Sewing machine running stitch	112	174*
Sleeve or tube connector	29	282
Hand tools	29	282
Textile fabrics	26	21
Textile fibers	19	66.1*
Textile strands		
Plastic filaments	264	168
Twisting synthetic strands	57	282
Wire	140	105*
Cringle	114	114
Crocheting		
Fabric	66	193
Knitting	66	85R
Needles	66	118
Sewing	112	116
Crook	119	152
Crop		
Riding	231	2.1*
Thinners	47	1.43
Croquet		
Design	D21	210*
Game	273	56*
Mallet	273	83
Cross		
Bail for harness	24	172*
Bearer for railway car under frame	105	419
Braced pole arm	52	697
Chain antiskid for wheels	152	223*
Decorative item	D11	96
With illumination	362	121
Head		
Bearing slide	384	11
Die cutting machine	83	624*
Mine elevator guide	187	96
Motor valve actuator	91	218*
Shoe heel nailing machine	227	135
Modulation (See intermodulation)		
Rail for metal planer	409	325
Tree ship spar	114	92
Winding	242	43R
Fishing reels	242	273*
Spinning reels	242	241*
Cross Laid Textile	28	100*
Cross Talk		
Suppression in telephone system	379	417*
Telegraphy	178	69R
Cross Walk Pavement	404	17*
Crossbar		
Closure fastener	292	259R*
Exercising device	272	102
Telephony selective switch	335	112
Crossbow		
Design	D22	107
Mechanical projector	124	25
Crossing		
Continuous rail signals	246	375*
Protection railway	246	111*
Railway		
Cables	104	185*
Conduit	104	141
Drawbridge signal	246	118
Extensible gates	49	124
Gates on opposite approaches	49	93
Train actuated gates	49	263*
Road system	404	1
Signals car displayed	246	208
Signals highway automatic	246	293*
Street road bed railway	238	8
Structure railway	246	454*
Trolley	191	37
Crossover		
Electric insulator midline spacer	174	147
Portable railway track	238	12
Preventer for skis	280	817
Crotch	114	99
Crotonic Acid	562	598
Crowbar		
Design	D 8	88*
Freight car door operator	49	275
Pushing and pulling element	254	133R
Tool combined with others	7	166*
Track tool	104	10
Crowsocin Acid	549	436
Crown		
Boiler crown sheet	122	496
Protecting	122	495
Bridle loop	54	13
Gearing interchangebly locked	74	351
Gem setting	63	27
Light shade or bowl support	362	452
Tooth	433	218*
Shaping instruments	433	156*
Watch and clock crown making	29	179
Crown Ethers	549	347*
Crowning Device		
Dental instrument	433	141*
Piano sounding board	84	196
Craze and Crazing		
Barrel	147	13*
Closure	217	80
Staves	147	18*
Crt Recorder	346	158
Electrical memories	365	118
Crucible (See Vessel)		
Electric furnace	373	
Arc furnace device	373	72
Electroslag remelting device	373	45
Glass furnace device	373	30*
Induction furnace device	373	138*
Crucible	373	156*
Crucible or hearth	373	163
Resistance furnace device	373	109*
Including crucible or hearth structure details	373	122
Furnaces	432	156*
Heating general application	432	262*
Laboratory	422	102
Metallurgical	266	275*
Special material or treatment	156	DIG. 83
Thermit	266	167
Crucifix Design	D99	27
Crullers	426	556
Crumb Brush	D 4	
Crupper	54	22
Crusher	241	
Elements	241	291*
Grinding wheel dressing	125	11.11
Hollow metal body	100	
Nut edible	99	568*
Road in situ	404	90*
Surgical instruments	606	136*
Tobacco stem	131	324
Vegetable masher	241	169.2
Crust		
Pie crust sheet metal mold	99	432
Pie dough	426	391
Crustacean Culture	119	2
Crutch	135	68*
Design	D 3	8
Shifts	432	258*
Cryogenic Trap	62	55.5
Liquified gas content receptacles	220	901*
Crypt (See Mausoleum)		
Cryptography		
Code receivers	178	89*
Code transmitters	178	79*
Codes	341	67
Fraud preventing	283	73
Printed matter	283	17
Signals	116	18*
Signals railway cab	246	175
Teaching	434	55*
Typewriting	400	89*
Crystal		
Composition, inorganic luminescent	252	6*
Composition, organic luminescent	252	301.16
Detector radio per se	357	
Filter	333	187*
In sample holder	378	79
Liquid crystal composition	252	299.1*
Liquid optical filter	350	330*
Liquid stock material	428	1
Metal working, making	29	DIG. 17
Microphones	381	173
Pickups	369	144
Piezoelectric	310	311*
Scintillation	250	458.1
Sheet, ribbon or tube	156	DIG. 88
Web or cage crystal growth	156	DIG. 84
Crystallization		
Apparatus	422	245*
Distilling processes with	203	48
Growing crystal from fluid-semiconductor device forming	437	81*
Hydrocarbon recovered	585	812*
Inorganic compounds process	23	295R*
Single crystal	156	600*
Sugar		
Apparatus	127	15*
Processes	127	58*
Cubicle	52	329
Cue		
Billiard	D21	210*
Chalkers	273	17*
Racks	211	68
Rests	273	23*
Structure	273	67R*
Trimmers	30	494
Cuff		
Apparell design	D 2	222.1
Handcuff	70	16*
Holder	24	41*
Design	D11	222*
Making	223	2*
Ironing	223	52.1*
Protector	2	60
Shirt	2	123*
Cuff Link	24	41
Design	D11	222*
Culinary		
Processes and apparatus	99	
Cultivator		
Flame type	47	1.44
Crop thinning	47	1.43
Methods	47	58
Weed killer	126	271.1*
Harrow	172	
Metalworking making	29	14
Plow type	172	
Cultures		
Animal husbandry		

	Class	Subclass
Acquariums	119	5
Aquatic	119	2
Crustatian	119	2
Fish	119	3
Mollusk	119	4
Silkworm	119	16
Bacterial culture	426	43
Bee culture	449	
Incubators or racks	435	809
Plant husbandry		
Algae culture	47	1.4
Electroculture	47	1.3
Mushroom culture	47	1.1
Water culture	47	59*
Tissue cell culture	435	41
Virus culture apparatus	435	284
Culvert	405	124
Static mold	249	11*
Cup (See Dish; Receptacle)	215	
Cleaning attachments drip	15	248R*
Corrugating wall	72	176
Dispenser	D 6	516
Drinking	215	
Collapsible	220	8
Design	D 7	509*
Dispensers	D 6	516
Stand, rack, or tray for	D 7	616
Strainer detachable	210	464*
Drinking fountain bubble	239	31*
Holders	312	43
Drip (See drip cup)		
Edge		
Making machine	493	109
Trimming	83	178*
Egg	211	14
Design	D 7	503
Footed	D 7	524
Holder	222	
Ice cream	D 1	116*
Inkwell desk-attached	108	26.2
Lacteal		
Extractors	e04	74
Pads	e04	346
Measuring	73	426
Design	D10	46.2
Metal working, cup formed & bottom removed	29	DIG. 9
Oil cup closure	184	88.1*
Pessary	128	839*
Sounding combined	33	713
Thermometer combined	374	157
Sewing machine feed	112	18
Shaving	220	
Sounding with sampling	33	717*
Stamping from sheet	72	343*
Suction		
Bracket support	248	205.5*
Light supports	362	397
Surgical vacuum	604	313*
Umbrella drip	135	48
Cupboard		
Latch	D 8	331*
Cupola		
Building	52	208
Design	D25	35*
Gas generators	48	62R*
Metallurgical	266	197*
Discharging	266	195*
Forehearths	266	166
X-art	266	900*
Ore treating	266	219
Cuprammonium Acetate		
Hydrocarbon purification by	585	846
Cuprammonium Cellulose	536	57
Compositions	106	167
Fiber modification	8	123
Cupreine	546	134
In drug	514	305
Curb		
Design	D25	119
Feeler	D10	117
Flower bed edging	D25	38*
Hydrants	137	272*
Pin for watch balance regulating	368	176
Street	404	7*
Catch basin with strainer	210	299*
Electric conductor containing	174	39
Static mold for making	249	8
Curbing Chain Making	59	28
Curd Breaker	99	452*
Cureite	606	160
Curing		
Hay and fodder	426	636
Tobacco		
Electrical or radiant energy	131	299
Fluids or fluent material	131	300*
Curler		
Apparel ironers	223	52.2*
Curling iron for hair	D28	38
Curling irons self heating by burner	126	408*
Electric heaters	219	222*
Hair	132	226*
Design	D28	35*
Hat brim shaping apparatus	223	14
Metal edge curling rolls	72	102
Textile fiber working	19	66.1
Yarn twister	57	29
Current Electric		
Alternating in telegraph systems	178	66.1*
Alternating rotary field and armature dynamo	290	5
Belts	128	387
Collectors		
Dynamo	310	219*
Moving vehicle	191	
Rotatable connector	439	13*
Conductive fluids	174	9F
Control		
Arc discharge	315	
Electrical separation of liquids	204	305*
Electrolytic apparatus	204	193*
Electrostatic discharge	422	186.28*
Railway signal systems	246	
Converting	363	
Current conversion	363	13*
Direction indicators polarity testers	324	133
Distribution in vehicle transmission	191	2*
Electric music instrument	84	600*
Food preservation	426	244*
Generating stress strain test	73	763*
Generating thermometers	374	179
Measurement of electricity	D10	75*
Meters electric	324	76R*
Modifying thermometers plural zone	374	110*
Averaging	374	115
Distinct temperatures	374	166*
Operated telautograph	178	19*
Operated thermometers	374	163*
Digital output	374	170*
Pulsating in telegraph systems	178	66.1
Railway block signals	246	
Regulation for X rays	378	109
Regulation of alternating current generators	322	27
Regulators	323	
Reversing in telegraphy	178	16
Shifting switch in arc lamps	314	2
Superposed telegraph system	178	49
Supply to electric furnaces	373	
Arc furnace	373	102*
Glass furnace	373	39*
Induction furnace	373	147*
Supply to electric railways	191	
Transformers	336	
Current Fluid		
Brake operators	188	155
Centrifugal fluid distributor operated by	239	214.13
Classifying separating and assorting solids	209	132*
Cleaning implements operated by	15	104.61*
Conveyer for railway snow excavator	37	202
Conveyers	406	
Dredges operated	37	68
Scouring	37	79
Evaporators blast or current	159	16.1
Evaporators film type	159	8*
Evaporators spray type	159	4.1
Fumigators	422	305*
Massage	128	66
Measuring		
Flow direction	73	188
Ships logs	73	181
Motor	416	
Dynamo with	290	
Pump with	417	334
Rotary fluid distributor operated by	239	222.17
Steam injection	159	16.3
Submerged combustion	159	16.2
Valve reciprocating disk rotating	137	330*
Currycomb	119	86*
Design	D30	159
Currying		
Compositions	252	8.57
Process	8	94.21*
Cursor, Display Input Control	340	709*
Curtain		
Bedstead	5	163
Cabinet	312	3*
Camera shutter	354	241*
Design, window	D 6	575
Lace or net	87	
Design	D 5	11*
Loop threader for curtain rods	223	105
Material (See textile)		
Net or mesh fabric	D 5	11*
Piano pianissimo device	84	220
Portable flexible panel type	160	
Projection lantern dimmer	362	278
Pulls		
Knob and cord	16	122
Tassels	428	28
Rail or runner	16	87R*
Railway sleeping car	105	324
Releaser for train vestibule	105	23*
Rigid tieback	D 8	368
Ring	16	108*
Design	D 8	367*
Rod	211	86*
Bracket	248	261*
Design	D 8	363*
Design	D 8	380
Decorative element	52	301
Design	D 8	376*
Shade roller bracket combined	248	252*
Single	211	105.1*
Rope for pulling	160	340*
Sheet delivery	271	67
Shower bath	4	608*
Stretcher	38	102.1*
Support or rack with	211	180
Theater curtain derrick hoist	254	266*
Valve head	137	625.28*
Vehicle		
Design	D12	183
Storm front	296	83
Tops	296	138*
Curtain Wall	52	235
Curved wall	52	245*
Picture window	52	766*
Curve		
Analysis, chart &	33	1C
Cable railway	104	189*
French	33	561.2*
Ruler and scriber		
Gauge	33	561.2*
Line	33	27.1*
Compass	33	27.2*
Conic section	33	27.8
Rose engine	33	27.11
Sine curve	33	27.1
Spiral	33	27.9
Line combined	33	26
Pantographic	33	23.1*
Surface	33	21.1*
Track	238	15*
Curved Work Forming Means		
Gear cutting	409	1*
Glass molding	65	286*
Metal bending	72	380
Milling	409	64*
Pattern curvilinear draw	164	215*
Planing	409	309*
Plate cutting	82	72*
Saw table gauges	83	471*
Stave jointing traveling saw	147	34
Wood shaping guide	144	152*
Cushion (See Mattress)	5	448*
Billiard table	273	9
Bowling alley	273	53
Chrysanthemum	PLT	75
Dash board mounted	280	727*
Design	D 6	596
Elevator wall end	187	67
Land vehicle letdown top	296	125*
Pillow	5	434*
Pin cushion	D 3	27
Pump pressure compensator	417	540*
Rail seat	238	283*
Railway wheels	295	11*
Saddle	54	41
Spring device	267	

	Class	Subclass
Reciprocating bed	267	75
Well rig walking beam	74	581+
Cushioned Device		
Axle box	105	224.1
Bedpans	4	456+
Boxes	217	5+
Chair seat	297	455
Connecting rods	74	583
Container	493	904*
For piston of expansible chamber device	92	85R
Gun stock	42	74
Design	D22	111
Heel	36	35A+
Horseshoe	168	12+
Design	D30	147+
Impacting device	173	139
Power hammer and presses	72	431+
Railway draft devices	213	7+
Shell	102	473+
Shoe		
Heel	36	35A+
Heel antislip	36	59R+
Heel ventilated	36	3R+
Insole	36	44
Insole design	D 2	318
Pads	36	71
Sole	36	28
Sole ventilated	36	3B
Sole	36	28+
Tires	152	151+
Tool driving means	173	162.1
Typewriter key cap and stem	400	491+
Wheel and axle	301	2
Window sash	49	428
Cuspidor		
Cleaner	15	73
Dental apparatus combined	433	97
Design	D34	2
Stove attachment	126	32
Structure	4	258+
Cut Film Holders	354	275+
Magazine	354	174
Cut Pile Fabric		
Cutting	26	13
Finishing	26	2R+
Woven	139	
Cuticle		
Cutlery	30	
Combined	132	73.5
Cutlery	30	
Blades	30	346+
Cutting tools	30	165+
Design, miscellaneous	D 7	649+
Handles & blade connections	30	340+
Holder for	D 7	637
Holders for detachable blades	30	329+
Making	76	104.1+
Dies for	72	470+
Sheathed	30	151+
Silverware sorting	209	926*
Cutoff		
Brake system flow retarder and	303	84.1
Expansible chamber motor		
Admission	91	247+
Multiple expansion	91	152+
Fluent material	251	
Automatic weigher combined	177	60+
Fluid distribution valve actuation	251	
Food depositing machine	425	447+
Food depositing machine	222	
Hopper cutoff to sifter	209	246
Lubrication gravity feed	184	66+
Milking machine vacuum line	119	14.8
Nozzle with preset	239	67+
Receptacle filling	141	192+
Sand feeder	291	31
Slit resilient diaphram dispenser	222	490
Water distribution spout and	137	872+
Fluent material dispenser		
Biasing closure	222	511+
Contents pressure operated	222	491
Flow controller	222	544+
Gravity actuated	222	500
Motor operated	222	504
Preset cutoff	222	14
Rate of flow responsive	222	59
Relatively movable actuator for	222	505
Sectional	222	502+
Snap action	222	498+
Fluid pressure regulator combined	137	456+
Fuel feed		
Automatic burner control	431	18+
Boiler	122	447
Burner nozzle	239	569+
Selectively preset	239	67+
Milking machine vacuum line	119	14.8
Steam engines	91	247+
Cutout (See Circuit, Maker & Breaker)		
Arc lamp circuit	314	10+
Electric vehicle supply	191	8
Fluid heater	236	21R
Lamp circuit	315	119+
Muffler		
Acoustic	181	236
Valve structure	137	625.44+
Sign letters	40	602
Switches	200	
Cutter & Cutting (See Abrading; Filing; Sawing; Trimming)	83	
Abrading	51	
Agricultural		
Citrus fruit cutter hand tool	30	113.1+
Colters	172	
Corncob splitting	225	93
Cornstalk	56	53+
Cutter type harvester	56	229+
Design	D 8	1+
Fruit gatherers	56	328.1+
Green corn	460	45
Harrow disk	172	518+
Harvester	56	
Planting machines with seed cutters	111	
Plow moldboard furrow slice	172	758+
Potato cutters for planting	83	
Potato diggers	171	26+
Pruning saws	30	166.3+
Scythes	30	309
Sickles	30	309
Sod cutters	172	19+
Stalk choppers	56	500+
Tree hacks for debarking	30	121
Vine cutters	56	229+
Block and board	269	289R
Board, household	D 7	698
Brick	83	
Broaching machine	409	243+
Buttonholes	30	118+
Machines	83	905
Cable	30	
Fishing line	43	43.12
Ships anchor cable	114	221R
Well cable	166	54.5+
Well torpedo cable	89	1.14
Candle	83	
Candy	83	
Cigar tip	30	109+
Design	D27	195
Cleaner for inside of pipe	15	104.13+
Coating processes with	427	289+
Combined with other tools	7	158+
Computer controlled, monitored product manufacturing	364	474.1+
Container opening	206	601+
Cutlery hand manipulated	30	
Eraser combined	15	105.53
Hair planers	30	30+
Hair thinning shears	30	195
Knives	30	165+
Manicure	30	26+
Nippers	30	175+
Razors	30	32+
Saws	30	166.3+
Scrapers	30	169+
Shears	30	194+
Dental instruments	433	144+
Dermatome	606	132
Design hand held tools	D 8	14+
Abrading	D 8	90+
Bayonet, dagger, hunting	D22	118
Cleaning	D32	35+
Combined with key holder	D 3	64
Hair	D28	52+
Kitchen	D 7	693+
Knife, fork, spoon	D 7	642+
Letter opener	D 8	102+
Pencil sharpener	D19	73+
Razor	D28	45+
Silverware	D 7	642+
Dispenser with	222	80+
Article dispenser	221	30+
Article impaler	221	213+
Gas or vapor dispensing	222	5
Soap dispenser	241	602+
Earth and stone		
Bush hammers and chisels	125	41
Core type posthole diggers	294	50.5+
Earth boring	175	
Earth boring bits	175	327+
Earth core drills	175	403+
Earth excavating	37	
Earth reamers	175	406+
Earth scoops	37	118R+
Earth working	172	
Grinding wheel dressing	125	11.11
Millstone dressing machine	125	27+
Millstone picks	125	42
Mining machines	299	29+
Precious stone working	125	30.1
Rock drilling	175	
Rockworking in situ in earth	299	
Shave type mining machine	299	34
Stone chisels	125	6+
Stone dressing	125	2+
Stone planing	125	9
Stone sawing	125	12+
In place in earth	299	
Stone turning	125	10+
Stoneworking	125	
Street surface removal	299	36
Tunneling machines	299	29+
Well drilling	175	
Edge	83	425.2
Eraser combined	15	105.53
Eraser mutilating	30	169+
Burnisher combined	7	124
Feeding and cutting	83	401+
Food		
Butter	83	
Cheese	83	
Citrus fruit	30	113.3
Cleavers	30	308
Cooking molds with trimmer or divider	99	430
Corer	99	547+
Annular cutter hand tool	30	178+
Citrus fruit hand tool	30	113.1+
With segmenters	99	545
With segmenters hand tool	30	302
With two blades	30	174
Fish cutters	54	63
Indiscriminate comminution	241	
Indiscriminate cutting	83	
Meat saws (See wood saws)		
Parers for fruit	99	588+
Pastry making	425	289+
Pie segmenters	30	114
Tub or block with	241	199+
Vegetable end	99	635+
Waffle irons with excess trimmer	99	375
Furbishing	409	63
Gear cutting, milling, planing	409	
Glass (See search notes)	83	879+
Machines with charging molding		
Machines with shaping and	65	174+
Guide combined	30	286+
Hair guide for cutting	132	213+
Hard material in situ	299	
Boring	175	
Cutter	299	79+
Disintegrating machine	299	29+
Ice boring	175	18
Ice working tool	299	24
Heated (See 4 note to class 30)	83	171
Heel and sole edge	12	85+
I-beam cutter	83	DIG. 2
Ice		
Chippers	30	164.5
Harvesting implements	299	24+
Heat cutting	62	320
Heat cutting electrically	30	140
Implements	299	24+
Picks	30	164.5+
Scraper hand held	30	136+
Scrapers for removing ice from sidewalks	37	266+
Ship ice breaker	114	42
Snow plows with ice scrapers	294	54.5
Inflatable tube	83	DIG. 3
Insulation	81	90.1+
With remover	81	9.4+
Leather manufactures	69	

	Class	Subclass
Making cutters	76	
Edge by electric weld deposition	219	77
Manicure compound tool with	132	75.4+
Metalworking	407	
Air current generated by	29	DIG. 82
Ambulatory, with fluent conduit	29	DIG. 64
Auger lip cutting	76	3
Ax making	76	7+
Boring head	408	234
Boring machines	408	
Broaches	407	13+
Cable sheath cutters	30	90.1+
Can openers	30	400
Casting combined	29	527.6
Casting device with	164	262+
Chain making machine with	59	16+
Chasing screw thread	408	215+
Cold chisels	30	168
Contained supply reservoir	29	DIG. 65
Countersinks	408	223+
Cutter making processes	76	116+
Cutters for machine mounting	407	
Die shaping sheet metal and	72	324+
Drilling machines	408	
Drills	408	199
Drive	29	DIG. 55
Engaging cleaner	29	DIG. 97
Expanded metal making	29	6.1
Fan coaxial with	29	DIG. 83
Feed	29	DIG. 57
Fence barb cutting	29	7.1
File cutting	76	12+
File resharpening sand blast	51	414
Files and filing	29	76.1+
Flame cutting	148	9R
Flame cutting apparatus	266	48+
Fluid channel in	29	DIG. 92
Fluid spreader contacts	29	DIG. 69
Forging machine with cutting machine	29	34R
Forging machines with incidental cutting	72	324+
Gear cutting machines	409	1+
Hand manipulated tools for	30	165+
Heat employed to cut	148	9R
Hood encased	29	DIG. 86
Horseshoe making machine with	59	37+
Immersion complete	29	DIG. 71
Immersion partial	29	DIG. 74
Lathes	82	117+
Milling machines	409	64+
Nail making machines with	10	28+
Needle making machine with	163	1+
Pin making machine with	163	6
Pipe and rod cutters	30	92+
Planing machines	409	288+
Printers leads	83	
Punching	83	
Reamers	408	227
Rifling	409	306
Rolling and cutting machines	72	203+
Rotating	29	DIG. 67
Saw tooth cutting	76	28+
Sawing	83	
Scrap cutting	83	923
Screw cutting lathe	82	110+
Screw threading dies	408	215+
Screw threading machines	408	72R+
Screw threading taps	408	215+
Screw threading with cut off	408	28+
Shapers	409	288+
Sharpeners abrading	51	246
Sharpeners for cutting tools	76	82+
Sharpeners for saw teeth	76	30+
Sheet and bar cutting	83	
Sheet metal shaping die with	72	324+
Shredding	29	4.51+
Staple making machine with	59	71+
Stereotype concave surface finishing	409	309
Tap or die	408	215+
Tire upsetting machine with cutter	29	22
Tube and sheath splitters	30	90.1+
Tube cutters for well tubing	166	55
Turning to taper	82	15+
Turning with profiled cutter	82	13
Turning with radial cutters in hollow head	82	130
Type casting mechanism with	199	54+
Valve refitting portable tool	409	64+
Wire	83	
Wire cutting with tag machine	493	343+
Wire fabric making with slat	140	26
Wire straightening and	140	139+
Wire stretching implements with	140	123.6
Wrench attached cutter	81	181+
Oiler	83	169
Paper	D15	127
Pencil sharpener (See pencil sharpener)	30	451+
Machine	144	28.1+
Pipe hand tools	30	92+
Plastic block apparatus	425	289+
Plastic material implements	30	115
Punching	234	
Receptacle openers		
Implement	30	2+
Metallic receptacle with	220	260
Refrigeration related	62	294
Rotary (See notes to)	30	347
Rotating axially moving tool	408	
Safety devices	83	DIG. 1
Selective	234	
Pattern controlled	234	59
Severing by tearing or breaking	225	
Sewing machines combined	112	128
Thread	112	285+
Shaping devices	407	
Sheet and bar	83	
Cigar receptacle with	206	238+
Cigar wrapper cutter	131	33+
Cigarette mouthpiece making	131	91
Cloth finishing	26	7+
Dispensing package with	206	216
Fabric reels with	83	
Label machine strip severing	156	510+
Measurer fabric and cord with	83	522.11+
Paper aperture making punch for sheet retainer	402	1
Paper bag making with	493	227+
Paper box making with	493	56+
Printing machine with	101	224+
Sheet material associating and folding with	270	21.1
Sheet material folding with	493	340
Stenciling machine	101	117
Tobacco leaf disintegrating	131	311+
Tobacco plug	131	117+
Tobacco stem	131	317+
Shoemaking	12	
Soap	83	
Solid material comminution or disintegration	241	
Sound waves	83	14
Sound waves	83	701
Stone working	125	
Street surface removal		
Ice	299	24
Surgical	606	132+
Design	D24	28
Electrical	606	39+
Test		
Cutting edge testing	73	104+
Shear stress, eg Izod, charpy	73	844
Textile and strand	83	913
Beria type cutter	83	403
Bobbin and cop winding with	242	19
Buttonhole cutter	30	118+
On sewing machine	112	68
Cloth finishing	26	7+
Cordage winding with	242	48
Fabric reeling with	242	56R
Knitting strand controlled stop	66	159
Measurer for fabric with	33	732+
Severing cutter for sewing machine	112	130
Sewing machine shuttle with	242	21
Shears	30	194+
Spool or twine holders with	83	649+
Textile knitting	66	125R+
Textile spinning strand control stop	57	86+
Textile weaving fabric	139	291C
Textile weaving pile	139	43
Textile weaving thread control	139	260+
Textile weaving weft	139	302
Thread cutter for sewing machine	112	285+
Trimmer for sewing machine	112	129
Tufting sewing machine	112	80.1+
Well torpedo cable	89	1.14
Threshing	460	
Tobacco and tobacco products	131	
Cigar end cutters	83	
Cigar or tobacco receptacle with	206	238+
Cigar tip cutters hand	30	109
Tools with additional tools	7	158+
Monkey wrench	7	139+
Plier type	7	129+
Plier type	7	132+
Torch	266	48+
Feed dispersing	239	398+
Tracheotome	606	185
Trepan	606	176+
Trepanning	408	703
Turning	82	
Vehicle body	296	2
Woodworking	144	36+
Coopering	147	
Draw knives	30	313
Knives	30	165+
Pencil sharpener	30	451+
Reciprocable along elongated edge	83	746+
Sawing	83	
Spokeshaves	30	281
Turning	142	
Work attached device	83	743+
Cyanamides	423	368
Catalysts containing	502	200
Electrolytic synthesis		
Aqueous bath	204	91
Fused bath	204	63
Fertilizers containing	71	55+
Organic radical containing	564	103
Cyanates	423	364+
Esters	560	301
Cyanide		
Catalysts containing	502	200
Detergents containing	252	141
Electrolytic synthesis		
Aqueous bath	204	91
Fused bath	204	63
Leaching ores with	75	711+
Electrolysis combined	204	
Organic	558	303+
Preserving, disinfecting, sterilizing with	422	35
Salts inorganic	423	364
Cyanine Dyes		
Cyanoethylation of fibers	8	DIG. 13
Photographic compositions containing	430	581+
Cyano Group, Formation of	558	308+
Cyanoacetic Acid	558	443
Cyanogen		
Ammonia from compounds	423	352
Biocides containing	424	607+
Electrolytic synthesis		
Aqueous bath	204	91
Fused bath	204	63
Hydrocyanic acid	423	364
Salts	423	364+
Cyanoguanidines	564	104
Cyanohydrins	558	451
Cyanuric Acid	544	192
Cycle (See Velocipede)		
Bicycle type	280	200+
Design	D12	111
Design	D12	107+
Dicycle type	280	208
Electric bicycle signal	340	432
Electric light	362	72
Locks	70	233
Mud guards	280	152.1+
Parallel connected	280	209
Polycycles	280	282
Rack or holder	D12	115
Saddles	297	195+
Sidecar	D12	116
Single axis or wheel	280	205+
Stirling	62	6
Theft preventing alarms	116	33
Tricycle type	280	200+
Convertible	280	7.15+
Design	D12	112+
Simulations	280	828+
Vehicle energy actuated signal	116	56+
Cyclic Hydrocarbon (See Alicyclic Hydrocarbon; Aromatic Hydrocarbon)		
Cyclic Peptides	530	317+
Cyclic Polymerization, Hydrocarbon Synthesis	585	415+
Aromatic hydrocarbon synthesis	585	415+

	Class	Subclass
Cyclic Thiocarbonates	549	30+
Dithiocarbonates, monothiocarbonate	549	30
Trithiocarbonates	549	36
Cyclization		
Mineral oil	208	46+
3		
3,5-cycloandrostanes	552	500+
Cyclobutyl Carboxylic Acid Esters	560	123
3,5-cyclocholesterols	552	500+
3,5-cyclogenanes	552	500+
Cyclohexamide	546	
In drug	514	328
Cyclohexanol	568	835
Cyclohexanone	568	376
Cyclohexylamine	564	462
Cyclometers	235	95R+
Cyclone Separator	406	173
Gas separation	55	337
Liquid separation	210	512.2
Cycloolefines	585	23
Synthesis	585	350+
By dehydrogenation	585	379+
Cycloparaffins	585	20+
Synthesis	585	350+
Cyclopentadiene Synthesis	585	350+
By alkylation	585	446
Cyclopentanehydrophenanthrene Compounds	552	502+
Heterocyclic	540	2+
Cyclopentyl Carboxylic Acid Esters	560	121+
Cyclopropane	585	350+
Cyclopropyl Carboxylic Acid Esters	560	124
Cycloserine	548	244
3,5-cyclosteroids	552	500+
Cyclotrons		
Energizing systems	328	234
Nuclear fusion reactions use in	376	100
Structure	313	62
Systems including	328	234
Tubes	313	62
Cyclovitamin D	552	653
3,5-cyclovitamin D	552	653
Cylinder		
Airplane with sustaining rotor	244	10
Bracket support	248	230+
Caster	16	22+
Compressor		
Movable cylinder with reciprocating piston	417	460+
Multiple cylinder	417	521+
Rotary cylinder	417	462
Door closing and liquid checking	16	57
Earthworking	172	554
Escapement	368	129
Expansible chamber device	92	169.1+
Concentric cylinders	92	51+
Lubricating means	92	153+
Movable cylinder	91	196+
Moving cylinder multiple	92	117R+
Gauges	33	542+
Glass cylinder making	65	
Glass handling	414	24
Grinding ie internal grinding	51	290
Handles, hollow cylinder	414	910*
Head packing	277	
Heat exchange means	165	181
Holding member	292	261
Internal combustion engine		
Construction	123	193R
Cooling	123	41.72+
Multiple	123	52R+
Oscillating	123	42
Reciprocating	123	50R
Rotary	123	43R+
Joint for rotating cylinder	285	134+
Lagging	165	135+
Lock	70	357+
Housing	70	449
Key	70	406
Lubricator	184	18+
Machine gun	89	13.5+
Material treating		
Abrading floors	51	176
Abrading with rotary flexible tool	51	358+
Abrading with rotary rigid tool	51	206R+
Acetylene generator	48	
Baffle	210	512.1
Brushing	15	3+
Comminuting	241	293+
Corn sheller	460	45
Drying and cooling with rotary cylinder	34	63
Fiber carding	19	112
Fiber combing	19	126+
Filter element	210	497.1
Huller	99	600+
Leather treatment	69	37
Movable filter	210	402+
Paper stuff straining	210	402+
Photographic printing	355	104+
Potato digger with screen	171	111+
Reactor compartment	210	207+
Scouring	51	22+
Textile treatment with fluid	68	5R+
Threshing	460	59
Web forming	162	323+
Weighted land roller	404	111+
Winding	242	7.21
Meter having expansible chamber	73	232+
Music boxes automatic playing	84	95.1+
Comb actuator	84	95.1+
Organ pin cylinder	84	86
Separable from keyboard	84	106
Panel hanger	16	89
Percussive tool rammer	173	125
Pistol or rifle revolving cylinder	42	59+
Pump (See pump fluid)		
Multiple cylinder	417	521+
Rotary cylinder	417	462
Rotary cylinder with reciprocating piston	417	460+
Rotor sustaining airplane	244	21
Sheet handling		
Associating	270	60
Folding and associating	270	32+
Folding, associating & printing	270	1.1+
Solid separation devices	209	
Steam locomotive	105	42
Syringe	604	218+
Telescoping	92	51+
Toothed cylinder manufacture		
Apparatus	29	23.1
Method	29	895.31
Vehicle support resilient	152	
Wood and metal treating		
Barrel stave cutter	147	35
Corrugating	72	
Cutter	144	221+
Planer with rotary cutter	144	116+
Slicer with rotary cutter	144	172+
Cylindrical		
Photographic printing apparatus		
Cymbal Beater	84	422.1
Cymel T M (aminoplast)	528	254
Cymene (See Aromatic Hydrocarbon)	585	350+
Cyproheptadine, in Drug	514	325
Cysteine Ester, in Drug	514	550
Cystine	562	557
Preparation from protein	562	516
Cystoscope	128	7
Cytosine	544	317
Czochralski Type Crystallization	156	617.1
D D T, in Drug	514	748
D D V P, in Drug	514	136
Dacron Insulated Cable	174	100
Dacron T M (See also Synthetic Resin or Natural Rubber)	528	308.1
Dado		
Cutter	144	222
Lapped multiplanar surfacing	52	536
Machine	144	133R
Daggers	30	295
Daguerreotypy	354	2+
Analysis and analytical control Apparatus	422	50+
Apparatus design	D16	
Dairy Type Bottles	D 9	
Dairy, Feed Treatment	99	452+
Dam	405	107+
Dental	433	136+
Mortar	52	421
Power extraction from water	405	78
Dampening (See Damper; Moistener; Steaming)	68	5R
Consumable electrode electric lamp		
Electromagnet feeding with damping	314	128
Feed with damping	314	99+
Instrument mechanism damping	73	430
Bourdon tube	73	739+
Musical instrument damping	84	
Overhead electric conductor with vibration damping	174	42
Paper making calender	100	73+
Planographic printing	101	147+
Copying apparatus	101	132.5
Pressure compensator		
Pipes and tubular conduits	138	26+
Pumps combined	417	540+
Vibration damping support	248	562+
Nonresilient	248	636
Resilient	248	562+
Suspension	248	610+
Damper		
Ear sound stoppers	128	864+
Electric measuring instruments for	324	125
Electric musical instrument for	84	600
Envelope shaping (i. e. , attack, decay, sustain, or release)	84	627
Envelope shaping (i. e. , attack, decay, sustain, or release)	84	663
Envelope shaping (i. e. , attack, decay, sustain, or release)	84	702
Envelope shaping (i. e. , attack, decay, sustain, or release)	84	738
Volume control	84	633
Volume control	84	665
Volume control	84	711
Volume control	84	741
Electric winding for alternating or direct current dynamos	310	183+
Fluid damper for planetary gear element	475	92
Flywheels and rotors having	74	574
Furnace draft	110	163
Heat exchanger	165	69
Impact absorption	49	9
By flexible barrier	49	9
By plastic deformation	188	371+
By resilient deformation	188	268
Inertial vibration damper	188	378+
Microphone or diaphragm	381	158
Piano damper head and stems	84	255
Harmonic	84	234
Held	84	218
Lifted	84	217
Railway truck	105	193
Stove or furnace flue	126	285R+
Open evaporating pans having	159	41
Time controlled	126	285.5
Weighing scale	177	184
Zither	84	287+
Damping Diode	313	317
With emissive cathode	313	310
With thermionic cathode	313	310
With two cathodes and anodes	313	1
Dancing		
Figure toys	446	330+
Shoes	36	8.3
Teaching	434	250
Dandy Roll	162	314
Dark		
Cabinet photography	354	307+
Lantern with shutter or screens	362	167+
Room	354	307+
Illuminators	362	293
Ventilators	98	29+
Darning		
Knitting	66	2
Last	223	100
Sewing machines	112	121
Design	D15	66+
Elements	112	236
Weaving	139	33.5
Dart	273	416+
Design	D22	115
Amusement devices	D21	49
Projector	D22	107
Projector	124	22
Dashboard		
Land vehicle	296	70+
Lighting		
Automobile	362	23+
Trolley car or rail car	362	77
Motor vehicle	180	90
Dasher		
Food	366	69+
Gas and liquid contact	261	32+
Dashpot		
Check valve	137	514+
Closure check	16	82+
Closure check brake type	188	266+
Door check and closer	16	49+
Electrode feed retarder	314	99+

	Class	Subclass
Electromagnetic electrode operator combined with	314	128
Gas & liquid contact apparatus	261	DIG. 18
Spring combined with	267	195*
Switch contact retarder	200	34
Valve retarder	251	48*
Water closet elements	4	248
Water closet tank valve	4	388*
Dasymeters	73	30.1*
Data Comparing		
Calculator	235	431
Cards perforated sorting	209	613
Condition responsive	209	554
Lens	333	248*
Meter fluid flow	73	196*
Punching machine	234	34
Data Conversion		
Analog to digital	341	126*
Card or tape punch	234	69*
Cryptographic	380	
Digital to analog	341	126*
Digital to digital	341	50*
Radix conversion	341	50*
With card or type punch	234	69*
With computation	341	75*
With data processing	364	900
With visual display	340	700*
Data Handling		
Selective punching	234	
Storage	234	55*
Data Processing, Electrical (See Computer, Data Conversion, Error Checking)	364	
Applications	364	400*
Computers, generic control	364	130*
Controlled by record means	235	375*
Electrical computers and	364	
General purpose digital data processors	364	200
Measuring, testing, or monitoring	364	550*
Microprocessors	364	200
Miscellaneous digital systems	364	900
Plural diverse storage systems	364	900
Programmed processing	364	200
Selective punching, for	234	55*
Special purpose digital data processors	364	900
Synchronous transmission of digital data	375	106
Video color signal derived by data processor	358	81
Data Storage		
Dynamic information storage or retrieval	369	
Magnetic	360	
Registers electrical	377	
Registers mechanical	235	
Static information storage or retrieval	365	
Dauber	15	209R*
Animal antivermin treatment	119	157
Polisher combined	15	107*
Kit including polish	401	118*
Supply container closure attached	401	126*
Daunomycinone	552	201
Davenports, i.e., Sofa Beds	5	12.1*
Davit	114	368*
Davy Lamp	362	164*
Day Beds	5	12.1*
DC to AC Chopper	363	124*
Dead Bolt for Lock	70	113*
Dead Center Overcoming	74	36
Dead End Connector Cord Holder	24	115R*
Dead Man Type Anchor	52	166
Dead Mans Switch	191	1R
Switch structure	200	
Deadeners (See Dampening)		
Gearing having plural sections	74	443
Railway		
Car wheel	295	7
Cushioning of track	238	283*
Rolling stock	105	452
Track	238	382
Dealkylation (See Cracking)		
Aromatic hydrocarbon synthesis	585	483
Foam breaking	252	321
Mineral oil	208	46*
Debarking	144	340
Debris Accumulating Pencil Sharpener	30	453*
Debris Control	29	DIG. 5
Chutes	29	DIG. 102
Receptacle, remover	29	DIG. 79
Remover, catcher, deflector	29	DIG. 94
Remover, plural type	29	DIG. 61
Separators from workpiece	29	DIG. 53
Decade Counter		
Electronic tube type	377	103
Gas tube	315	
Oscillator	377	
Decahydronaphthalene (See Alicyclic Hydrocarbon)		
Naphthalene hydrogenation	585	266*
Synthesis	585	350*
Hydrogenation of unsaturated hydrocarbon	585	266*
Decal (See Decalcomania)		
Decalcomania (See Transfer)	D20	11
Exposable adhesive layer	428	40*
Fraud or tamper detecting	428	915*
Made by coating	427	147*
Process of transfer	156	230*
Stock material	428	914*
Decalin (See Alicyclic Hydrocarbon)		
Decanter		
Coffee	222	475.1
Design	D 9	384*
Distillation systems separatory	202	204
Filter combined	210	299*
Heating means	210	182*
Gas and liquid contact	261	7*
Liquid separation	210	513*
Starch	127	27
Decanting	210	767*
Filtering combined	210	806
Decapitator for Marine Animals	17	63
Decarbonizing		
Absorbents	502	20*
Catalysts	502	20*
Mineral oil vaporizing combined	208	347*
Apparatus	196	122
Conversion combined	208	48R
Processes	134	39
Heating combined	134	20
Stills	201	2
Apparatus	202	241
Decarboxylation Aromatic Polycarboxylic Acid	562	479
Deceleration (See Acceleration)		
Decelerometer	73	514*
Decibel Meter		
Meter movement	324	76R*
Sound loudness measurement	73	646
Decimal Point on Calculators	235	61DP
Binary coded	377	33
Elimination	235	63DE
Locators	235	64.3
Deciphering (See Cryptography)		
Deck		
Bridge	14	6
Railroad		
Freight cars with convertible decks	105	370
Passenger cars double decked	105	340
Stock cars with	119	9
Ship	114	85
Type insulator for antenna	174	158R
Decking		
Paper making		
Finishing	162	286
Web forming	162	310
Pinking shears	30	229*
Sheet		
Cutting	83	
Tearing	225	
Declodding Nuclear Fuel	252	625
Decoding (See Cryptography)		
Decollator	270	
Web	270	52.5
Decolorizing (See Bleaching)		
Liquids	210	660*
X-art collection	210	917*
Decomposing Fat	260	415*
Decoration (See Article by Name; Ornament)		
Bow rosette, pompon	428	4*
Collapsible	428	12
Displays and exhibitors	40	406*
With special effects	40	427*
Feathers and plumes	428	6
Festoon	428	10
Collapsible	428	9
Filamentary	428	542.6
Flora, artificial	428	17*
Lamp housing	362	362*
Lights	362	227*
X-art collection	362	806*
Party type	428	7*
Pole, cap	52	301
Roof finial or cresting	52	57
Sheet-form	428	542.6
Trimming for clothing	2	244
Trimming for hat	2	186
Trimstrip for building	52	717.1*
Decorticating	19	5R*
Decoupling Filter	333	181*
Decoy		
Design	D22	125*
Trapping	43	2*
War training	434	11
Deep Drawing Metal	72	347*
Deer Sling	224	101*
Defecating Apparatus	127	11*
Defect Coating	430	938*
Defiberizers	241	
Deflating Tool for Resilient Tires	81	15.4
Deflection		
Cathode ray stream	313	421*
Cathode ray stream	315	399
Gas separation	55	434*
Liquid treatment	55	220*
Processes	55	1
Lamp arc	313	153*
Consumable electrode	314	20
Solid separator		
Gas suspension	209	143*
Liquid suspension	209	210
Testing	73	849*
Wind motor wheel	416	9*
Deflector		
Bearing lubricator	384	322*
Blowpipe nozzle	239	461*
Breath	128	863
Drip	52	97
Fluid distributor	239	461*
Fluid fuel burner nozzle	239	461*
Furnace air	110	310*
Gas separation	55	434*
Processes	55	1
Pipe	138	37*
Plant	172	517
Scouring dredger with current	37	79
Ship armor	114	10
Sprinkler combined	239	461*
Water motor	416	9*
Windmill	416	9*
Window wind	98	44
Deflocculation		
Liquid separation	210	696*
Solid separation	209	5
Defoliants	71	69*
Deforming		
Metal	72	
Casting combined	29	527.5*
Plastics		
Apparatus	425	
Processes	264	
Defribrillators	128	419D
Defroster		
By ventilator	98	90
Electrical resistance heaters	219	203
Heat applying window cleaner	15	250.5
Material applying window cleaner	15	250.1
Refrigerator design	D 8	29.2
Surface heater	126	271.1*
Vehicle power plant heater combined	237	12.3 A
Window	52	171*
Ventilator type	98	2
Defrosting		
Defrosting device	D 8	29.2
Heat pump	165	17
Refrigeration apparatus	62	272*
Automatic	62	151*
Automatic, frost initiated	62	140
Frost indicator	62	128
Process	62	80*
Degasifying Liquids	55	159*
Process	55	36*
Degassers	261	DIG. 19
Degaussing (See Demagnetizing)		
Means in cathode ray tube circuit	315	8
Television	361	150
Torpedo nets	114	240R

	Class	Subclass
Degradability Enhanced Synthetic Resin or Natural Rubber Composition	523	124+
Cellular product	521	916
Degreasing		
Distillation		
Still and extractor	202	168+
Still extractor	202	170
Solids	134	
Textiles	8	139+
Degumming	8	138
Dyeing combined	8	
Dehalogenation		
Preparation of epoxy compounds	549	518+
Preparation of olefines	585	641+
Preparation of unsaturated esters	560	213
Deherners		
Electric heater type	606	164
Hand tool	30	
Dehumidifier	D23	359+
Dehydrating Oil		
Fatty oils	260	405.5
Mineral oil	208	187+
Electrical separation	204	188+
Electrophoretic or electroosmotic	204	181.8+
Dehydration (See Drier)		
Acid anhydrides by	562	869+
Acyclic ketones from alcohols	568	403+
Aldehydes from alcohols	568	485+
Compositions	252	194
Concentrating evaporating	159	
Distillation	203	12+
Fatty oils or acids	260	405.5
Foods	426	443+
Apparatus	99	467
Gas or vapor contact with solids	34	
Gas separation	55	
Refrigeration combined	62	271
Refrigeration combined process	62	93+
Mineral oils	208	187+
Electrical	204	188+
Electrophoretic or electroosmotic	204	181.8+
Olefine production by	585	638
Refrigerant	62	474+
Automatic	62	195
Process	62	85
Dehydroabietic Acid	562	404
Dehydroandrosterone	552	636
7		
7-dehydrocholesterol	552	547
Dehydrogenation		
Acyclic ketones from alcohols	568	403+
Aldehydes from alcohols	568	485+
Aromatic hydrocarbon synthesis	585	440
Diolefin hydrocarbon synthesis	585	616+
Esters from alcohols	560	239
Mineral oil	208	46+
Olefines from hydrocarbons	585	654+
Synthesis aromatic from alicyclic	585	430
Dehydrohalogenation		
Alicyclic hydrocarbon synthesis	585	359
Diolefin hydrocarbon synthesis	585	612
Olefin hydrocarbon synthesis	585	641+
Dehydrothiotoluidine Azo Compounds	534	800
Deicer (See Thawing)		
Aircraft	244	134C
Antenna	343	704
Carburetors	261	DIG. 2
Combustion product as motive fluid	60	39.93
Trolley collector head	191	62
Deinking		
Paper stock	162	4+
Textiles	8	137
Delasting	12	15.1
Delay Networks		
Delay lines including		
A lumped parameter	333	138+
Elastic bulkwave propagation means	333	141+
Elastic surface wave propagation means	333	150+
Long line elements	333	156+
Electronic tube system	328	55
Delinter	19	40+
Carbonizing processes	8	140
Delinting Cotton Seed	47	1.1
Processes	47	58
Fluid treatment	8	140
Delivery		
Collection receptacle	232	
Coins	232	64+
Letter box chute	232	53
Conveyer	198	
Carrier controlled selective	198	570+
Dumping vehicle with chute	298	7
Letter box	232	17+
Mail from aircraft	258	1.2+
Planting chute	111	76
Railway mail	258	
Railway selective	104	88+
Record holder	312	15+
Sheet	271	278+
Store service	186	3
Delrin T M (polyoxymethylene)	528	270
Delustering		
Cellulose ether or ester compositions	106	192
Viscose	106	166
Coating or impregnating processes	427	170
Demagnetizing	361	267
Demagnitizer	D13	183
Erase, head	360	118
General recording biasing, erasing	360	66
Sorting treatment	209	8
Demijohns (See Carboy)	D 9	367+
Demodulator	329	
Demonstrating Apparatus or Product	434	365+
Demonstrator Radioactivity (See Radioactivity Demonstrator)		
Demountable Rim	301	10R+
Demulsifying Compositions	252	358
Denatured Compositions	252	365
Alcohol	252	366
Densitometer		
Emulsion exposing printer	354	20
Emulsion opaqueness measuring	356	436+
Density		
Analysis gas	73	30.1+
Analysis liquids	73	32R+
Dent Remover Sheet Metal	72	457
Dental and Dentistry	433	
Amalgams and alloys	420	526
Amalgam mixer, eg dental filling	366	602*
Apparatus, fixed	D24	4+
Apparatus, portable	D24	10+
Cabinet	312	209
Cassettes	378	168
Chairs	297	68+
Design	D 6	334
Compositions	106	35
Containers for dental use	206	63.5
Dentures	433	167+
Die shaping	72	
Engines	433	103+
Equipment stands	433	25+
Fillings	433	226+
Floss	132	321
Holders	132	323+
Design	D28	64
Impression devices	433	34+
Impression material	106	38.2+
Instruments	433	25+
Medicines	424	
Molding devices	425	2
Molding devices	425	175+
Molding devices	249	54
Flasks	425	175+
Flasks for metal casting	164	376
Molds	425	175+
Molding processes	264	16+
Orthodontic devices	433	2+
Practice	433	
Processes manufacturing	29	160.6
Spittoons	4	263+
Spotlights	362	257+
X-art collection	362	804*
Supply packages	206	63.5
Teaching devices & methods	434	263
Teeth	433	167+
Tool container	206	368+
Waste receptacles	206	63.5
Dentifrices	49	
Dentiphone		
Acoustic hearing aid	181	127
Electrical hearing aid	381	68.3
Dentistry (See Dental)	433	
Design	D24	
Deodorant		
Body	424	65+
Cosmetics containing	424	65+
Fertilizer containing	71	3
Milk	426	488
Non body	424	76.1+
Preserving, disinfecting, and sterilizing	422	5
Deodorizer or Ozonizer	D23	366
Deoxidant Compositions	252	188.1+
Descaling compositions containing	252	81
Water softening or scale inhibiting compositions ctg	252	178
Dephlegmators		
Mineral oil	196	139
Still combined	202	
Depilating		
Animal carcass	17	47
Process	17	47
Compositions		
Electric needle	606	44
Needle supports	606	44
Fermentative	435	265
Hides and skins	8	94.16
Mechanical	19	2+
Depolarizer	252	
Depolarizing		
Compositions	252	
Depolymerization to Obtain Hydrocarbon Mixture	585	241
Deposit		
Certificates	283	59
Change gates	232	14
Collection and deposit receptacle	232	
Cabinet combined	312	211+
Depository design	D99	28+
Letter boxes	232	22
Milk bottle collection	232	42
Receptacles for	232	
Registering or receipt printing combined	109	24.1+
Photograph or microfilm record	346	22
Safes or depositories	109	
Design	D99	28+
Receipting means included	109	24.1
Depositor		
Bread etc making depositor	425	447+
Implement	222	
External body surface	604	289+
Medicine	604	47+
Solid materials	604	57+
Planting	111	
Dibbling	111	89+
Hill	111	34+
Toy figure for coins	446	10+
Depresser		
Necktie	24	53+
Railway crossing cable	104	186
Tongue	128	15+
Atomizer combined	128	200.15
Depth Bomb	102	390+
Depth Gauge		
Compressional wave	367	99+
Depth measuring instrument	D10	46+
Fluid level	33	
Geometrical	33	713+
Geophysical exploration	324	323+
Hydrophone	367	141+
Liquid	73	290R+
Radar	342	120+
Other than air, eg, underwater	342	118
Sound	181	
Derailer		
Actuated cab signal or train control	246	170+
Cycle or motorcycle	D12	124
Enclosure or guard	D12	127
Guards		
Railway	104	242+
Store service	186	30
Lever and cable operator	74	502.2
Railway		
Car attached	104	261
Interlocking	246	163
Derailleur (See Derailer)		
Derectifiers Electric	363	
Dereverberater	381	66
Dermatological Device		
Light application	606	9
Needle surgical	606	44
Support	606	44
Surgical instrument	606	131+
Dermatome	606	132
Derrick		
Extensible or movable	52	111+
Pushing and pulling elements		
Cable hoists	254	283+
Screw	254	99
Skeleton tower	52	648+
Desalting Sea Water	210	642

	Class	Subclass
Distillation	203	10
Fractional crystallization	62	532+
Direct contact refrigeration	62	533+
Reverse osmosis	210	652
Descaling Metal	29	81.1+
Combined with metal deformation	72	40
Desorpidine	546	55
Desiccation (See Dehydration; Drier)		
Design (See Design Classification)		
Advertizing	D20	
Apparel & haberdashery	D 2	
Arms, pyrotechnic articles, articles for hunting, fishing, and pest killing	D22	112
Artists materials	D19	35
Brushware	D 4	
Building units & construction elements	D25	
Care & handling of animals	D30	
Cases not specified elsewhere	D 3	
Caskets	D99	1+
Coating nonuniform	427	256+
Containers	D 9	
Devices & equipment against fire hazards, for accident prevention and for rescue	D29	
Electrolytic		
Coating	204	18.1
Lighting	26	
Embroidery and trimmings	D 5	
Equipment for production, distribution or transformation of electricity	D13	
Exercising equipment	D21	191+
Fishing equipment	D22	134+
Fluid distribution equipment, sanitary, heating, ventilation and air conditioning equipment	D23	
Foodstuffs	D 1	
Furnishings	D 6	
Games and gambling articles	D21	1+
Hardware	D 8	
Household articles, not elsewhere specified	D 7	
Hunting articles	D22	
Jewelry, symbolic insignia and ornaments	D11	
Knitting & netting	D 5	
Lighting	D26	
Linoleum	D 5	
Luggage & special containers &	D 3	76+
Machines, not specified elsewhere	D15	
Agricultural	D15	10+
Cleaning	D32	1+
Construction	D15	10+
Drive train	D15	148+
Drying	D32	8
Engine	D15	1+
Food or drink related	D 7	
Heat treatment	D15	144
Lubricator or oil collector	D15	150+
Material working, etc.	D15	122+
Packaging or wrapping	D15	145+
Pump or compressor	D15	7+
Refrigeration	D15	79+
Sewing	D15	66+
Vibrator or separator	D15	147
Washing	D32	6+
Measuring, testing or signaling instruments	D10	
Medical & laboratory equipment	D24	
Miscellaneous articles not specified elsewhere	D99	
Musical instruments	D17	
Office machinery	D18	
Office materials	D19	
Packages & containers for the transport or handling of goods	D 9	
Paper manufactures	D 5	
Pharmaceutical & cosmetic products, toilet articles & apparatus	D28	
Photographic, cinematographic and optical equipment	D16	
Printing	D18	13+
Office machinery	D18	
Office photocopiers	D18	36+
Recording, communication or information retrieval equipment	D14	
Safes and vaults	D99	28+
Sewing equipment	D 3	18+
Signaling instruments	D10	
Signs	D20	10+
Smoking articles	D27	
Sports equipment	D21	191+
Stationery, artists & teachers materials, & office equipment not elsewhere specified	D19	
Teachers materials	D19	59
Tents	D21	253+
Testing instruments	D10	
Tobacco & smokers supplies	D27	
Tombstone or monument	D99	17+
Tools & hardware	D 8	
Toys	D21	59+
Transportation or hoisting	D12	
Transportation, containers for	D 9	
Travel cases	D 2	
Umbrellas	D 2	5+
Vending machines	D20	1+
Weaving	D 5	47+
Desilverizing Lead	75	697+
Desizing	8	138
Dyeing combined	8	
Desk		
Article including card, picture or sign	40	358
Inkwell combined	108	26.2
Baggage convertible	190	11+
Bed combined	5	2.1+
Chair or seat combined	312	235.9
Design	D 6	396
Inkwell combined	312	232
Kneehole	312	194+
Letter holder, desk-type	D19	75+
Pad	248	346+
Design	D19	99
Paper rack or file	211	11
Piano case	84	180
Fall board combined	84	178
School desk	D 6	396
School seat combined	297	135+
Table	108	
Typewriter housing or support combined	312	208
Wall desk	D 6	555
Desoldering Apparatus	228	19+
Desoxy Morphine	546	46
Desoxycholic Acid	552	549
Desoxycorticosterone	552	601
Desserts	426	573
Design	D 1	
Destructible Feature		
Static mold	249	61+
Desuckering	71	78+
Desuperheaters	261	DIG. 13
Detacher		
Cable guide block combined	254	410
Comb combined	19	
Fruit gatherer combined	56	339+
Gin combined		
Rotary	19	53
Vibratory	19	52
Harness	54	69
Horse	278	21+
Detearing		
Apparatus	118	639
Detector and Detecting		
Amplifier triode	313	293+
Beat note		
Autodyne detector	455	321+
Heterodyne detector	455	313+
Homodyne	455	324
Coating or impregnating	427	7
Diode am demodulator	329	370
Electronic tube type	329	370
Fiber manipulation combined	19	
Heads		
Crystal mounting	250	361R
Scintillation	250	361R+
With sample holder	378	38
Leak	137	455+
Leak by fluid pressure	73	40+
Leak system in situ	137	551+
Lock combined	70	439
Loom		
Feeler	139	269+
Shuttle	139	203+
Stopping	139	336+
Metal bending	72	6+
Metal detector for airport security	340	568+
Metal detector for library books	340	572
Magnetic locators	324	200+
Musical instrument automatic eg player	84	115+
Nuclear reactor condition	376	245
Of submarines		
Sonar, echo type	367	87
Non-echo receiver circuitry	367	135+
Non-echo type	367	118+
Ore	324	323+
Pneumatic dispatch	406	10+
Radiant energy ray	250	336.1
Radio receiver (i. e. demodulator)	329	
Radio tube structure	313	
Regenerative demodulator		
Amplitude modulation type	329	367
Thread finishing combined	28	227
Warp preparation combined		
Loom replenishing	28	205
Stopping	28	189
Winding and reeling combined		
Bobbin and cop	242	36+
Cone wind	242	28+
Cordage	242	49
Fabrics	242	57
Detent		
Check controlled device lock releasing	194	247+
Check label and tag holder with slide and	40	653+
Chuck socket type with	279	98+
Closure fastener tripper with	292	333+
Control lever and linkage system	74	527+
Detention device combined with signal alarm box	340	304+
Electrode feed control for electric lamp and discharge	314	83+
Freight car stake	105	384
Joint with	403	326+
Lock		
Door biased latch bolt with	70	467+
Padlock with	70	20+
Pipe joint		
Auxiliary	285	82+
Essential holding means	285	305+
Swivel socket with	285	276+
Railway switch detention device	246	399
Rod joint or coupling sleeve with	403	300+
Rotating electric snap switch with	200	410+
Tool handle fastenings with		
Hinged	403	52+
Rigid	403	
Tuners with	334	88
Typewriter irregular line spacing	400	563+
Valve holder	251	297+
Wheel attaching device	301	119
Whiffletree with	278	108
Detergent Compositions	252	89.1+
Detergent alkylate synthesis	585	455+
Detinning		
Electrolytic	204	146
Deposition combined	204	120
Hydrometallurgy	75	716
Metallurgy	75	401
Detonators		
Characteristics testing for	73	35
Compositions	149	
Explosive devices	102	
Design	D22	112
Safes and bank protection	109	36+
Sequentially fired	102	217
Signal and indicators		
Burglar alarms door & window operated	116	87+
Burglar alarms door securing	116	15
Burglar alarms locks	116	11
Burglar alarms portable	116	83
Burglar alarms sash fastening	116	17
Burglar drop type	116	78
Lamp ignition combined	116	7
Periodic	116	23
Railway torpedo	246	487
Combined with other signal	246	217
Combined with switch	246	217
Placing mechanism	246	210+
Toys	446	398+
Detoxicant	424	10
Deuterium Heavy Hydrogen	423	648.1+
Catalytic recombiner	422	213+
Compounds inorganic	423	644
Electrolytic production	204	101
Thermo nuclear fuel	376	151
Deuterium Oxide Heavy Water	423	580

	Class	Subclass
Catalytic recombiners	422	213+
Electrolytic production	204	101
Nuclear moderator	376	220
Nuclear moderator	376	220
Nuclear moderator	376	350
Developing		
Copy camera	355	27+
Dyes on fiber	8	666+
Electrophotographic	355	245+
Brush applicator	355	250+
Magnetic	355	251+
Electrodes	355	261+
Electrophoretic	355	257
Liquid	355	257
Reversal	355	268
Photographic apparatus	354	297+
Design	D16	246+
Photographic processes	430	434+
Compositions	430	464+
Sensitizing combined	430	434+
Tank	354	331+
Devitrified Glass-ceramics	501	2
Dew Point (See Hygrometer)		
Dewaxing		
Mineral oil	208	28+
Apparatus	196	14.5
Wax paper	162	4+
Dexamethasone	552	574
Dextran	536	112+
Nitrogen containing	536	51
Dextrin	127	38
Fermentative preparation	435	
Dextromethorphan, in Drug	514	289
Dextrose	127	30
Diagnostic		
Biological test compositions and methods	424	2+
Medical (See medical & surgical equipment)	128	630
Acupuncture	128	907*
Eye	128	645
Test by visual stimulus	128	745
Feedback to patient of biological signal other than brain electric signal	128	905*
Heart	128	695
Instrument design	D24	17
Multiphasic diagnostic clinic	128	906*
Respiratory	128	716
Skin sensitivity to allergens or radiation	128	743
Skin touch or pain response	128	744
Teaching	434	262+
Test of electrophotographic copier	355	203+
Dial		
Calipers	33	783+
Clock	368	228+
Calender combined	368	28
Hands gear train	368	221
With hands	368	228
Distance measurement tape	33	762+
Gauge	33	501+
Gauge or meter design	D10	102+
Handwheel	74	553
Illuminator	362	23+
Weighing machine	177	177+
Indicating	116	200+
Indicator hand	D10	127
Indicators	33	792+
Knitting multiple needle machine	66	19+
Knitting pile loop formers	66	92
Lock operator	70	332
Micrometers	33	794+
Mirror combined	350	113
Music charts	84	474
Operator	74	10R+
Optical element combined	350	110
Registers cash	235	19+
Registers fare	235	34
Parallel axis	235	38
Single axis	235	43
Registers parallel axis disk combined	235	111
Registers single axis hand combined	235	112
Single axis	235	120+
Structure	116	334+
Switch multiple	200	11R+
Telephone	379	362+
Design	D14	246+
In instrument	379	362+
System	379	258+
Teletype	341	35
Thermometers	374	187
Time stamps	346	81+
Vehicle	D12	192
Watch face	D10	123+
Dialyzer	210	321.71
Process	210	644+
Using liquid membrane	210	643
Sugar		
Apparatus	127	10
Electrolytic	204	138
Processes	127	54
Diameters		
Determining	33	555.1+
Diaminotriaryl	552	113
Disazo compounds	534	677+
Diaminotriphenyl Methane	552	113+
Diamond (See Gems Jewel)		
Artifical producing	423	446+
Cutting	125	30.1
Earth boring tool	175	329+
Misc. chemical manufacture	156	DIG. 68
Tool	125	39
Digest	76	DIG. 12
Making blank or process	76	101.1+
Dianisidine	564	309
Diaper	604	358+
Bacteria inhibitor	604	360
Deodorant containing	604	359
Design	D24	50
Materials	604	367+
Pail	D32	37
Securing	604	386
Adhesive	604	389
Velcro T M	604	391
Diaphragm		
Acoustic structure	181	157+
Acoustic with mounting	181	148+
Barrel plug	217	111
Battery electric	429	247+
Camera		
Automatic control	354	410+
Dispenser type inkwell discharge assistant	222	581
Electrolytic cells	204	252+
Electrolytic electrodes	204	282+
Electrolytic elements	204	295+
Electrolytic treatment of water sewage	204	151
Electrophoretic	204	301
Fire tube	122	83
Flexible connecting	403	50+
Fluid pressure responsive	92	96+
Material	92	103R
Mounting	92	98R+
Plural	92	48+
Galvanic cells and storage batteries	429	247+
Gauge fluid pressure	73	715+
Horns	116	142R
Vehicle energy actuated	116	59
Iris type valve	251	212
Light valves	350	266+
Meter fluid flow	73	262+
Casing	73	274
Mounting	73	278
Structure	73	279+
Microphone	381	168+
Ribbon	381	176
Structure	181	158+
Telephone transmitter granular	381	180+
Mixer gas	48	184
Operated valve	251	12+
Barrel bung	217	104
Pop	48	53.3
Pop safety	137	469+
Packing rod	74	18+
Packing rotary rod	277	88+
Paper moulding	162	401+
Pen, fountain filling means	401	145
Pen-actuated means in inkwell	15	257.72
Phonograph sound box	181	161
Photographic	354	226+
Piano sounding boards	84	192+
Railway vestibule connection	105	15+
Regulator fluid pressure	137	505.36
Shutters photographic	354	226+
Switch fluid pressure	200	83R
Toys sounding	446	416
Valve	251	331
Biased	137	540+
Collapsible	137	843+
Seal	251	335.1+
Vibrator surgical	128	39
Wringer	68	242
Dispositives, in Finished Picture	354	354+
Diarylketone	568	332
Amines	564	328
Carboxylic acids	562	460
Diarylmethine Amines	564	315+
Benzhydrols or benzthiols	564	327
Benzophenones or benzothiophenones	564	328
Diamino diphenyl methanes	564	330+
Diastase	435	195
Diathermy		
Bandaging	128	82.1
Kinesitherapy	128	24.1+
Medicators	604	20+
Orthopedics	128	68.1
Surgical	128	362+
Surgical instruments	606	32+
Surgical magnetic	600	13+
Surgical receptors	604	358+
Diatomaceous Earth (See Silica)		
Diazines	544	224+
Azo compounds	534	767
Diazo	534	588+
Dye compositions	8	664+
Reactions	436	903+
Diazoamino	534	550+
Dye compositions	8	665
Diazoles-1, 2	548	356+
Diazoles-1, 2	548	300+
Diazoles-1, 3	548	300+
Diazomethanes	534	558+
Diazonium	534	558+
Diazooxide	534	556+
Diazotate	534	556+
Dibbing	111	89+
Dibbles	111	99
Dibenzanthrone	552	276
Dibenzo[1, 4]thiazepine	540	550
Dice	273	146
Agitators	273	145R
Dichlorodifluoromethane	570	134
Dickey	2	103
Dicloxacillin	540	327
Dictating Machine (See Sound, Recording and Reproducing)	D14	154
Dictograph T M (See Phonograph)		
Dicyandiamide	564	104
Electrolytic synthesis		
Aqueous bath salt	204	91
Fused bath	204	63
Salt	260	
Dicycle	280	208
Die (See Mold)		
Cutting	83	
Fence barbs	29	7.1
Punching	83	
Saw tooth forming	76	29
Saw tooth sharpening	76	30
Sheets and bars	83	
Tobacco stem	131	323
Tobacco wrapper	83	
Electroforming	204	6
Expressing		
Bread, pastry, confection	425	287+
Bread, pastry, confection	425	381.2
Bread, pastry, confection	425	461+
Cores founding	164	174
Earthenware	425	376.1+
Earthenware	425	461+
Metal plastic	72	253.1+
Plastics	425	381.2
Soap	425	289+
Soap	425	340+
Soap	425	383+
Foodstuff cutting		
Reciprocating	83	613
Rotary	83	591
Forming	76	4
Machines	72	
Holder		
Metal shaping	72	462+
Sheet punching	83	
Horseshoe making	59	60
Machinery part	D15	138
Metal		
Bolt, nail, nut, rivet, screw making	10	
Casting	29	DIG. 1

	Class	Subclass
Chain welding	59	33
Coiling spiral	72	141
Deforming	72	462*
Design	D15	136*
Forging anvil adjustable	72	418
Forging presses enclosed	72	343*
Horseshoe	59	60
Injecting	164	303*
Process for making	76	107.1*
Screw threading platen	72	88
Through-die	72	467*
Wire cutting	83	
Wire joining	140	116
Work-orbiting screw threader	72	191*
Paper box	493	167*
Punches		
Sheets and bars	83	
Wood match making	144	53
Woodworking	144	197
Punching dies	83	651*
Screw threads	72	88*
Shaping		
Closure applying	53	341*
Embossing members	101	16*
Metal can seaming	413	31*
Metal sheet shaping	72	462*
Printing embossing hot	101	8*
Stretch press	72	302
Wire fabric	140	107
Shoe sole	12	38
Textile	57	138
Dielectric		
Capacitors in	361	301*
Fluent compositions	252	570*
Hydrocarbon	585	6.3
Heating apparatus	219	6.5*
Heating methods	219	10.41*
Hygrometer	324	666
Lens	333	248*
Diels Alder Synthesis (See Diene Synthesis)		
Hydrocarbon synthesis	585	361
Diene Synthesis		
Higher unsaturated fatty acid	260	404.8
Maleic acid	562	498*
Maleic acid anhydride	549	262
Carbocylic compound	549	234*
Polymerization	585	507*
Rosin	530	214
Differential		
Gearing		
Cash register key operated	235	14*
Change speed and	475	198*
Conveyers having different speed zones	198	792
Plural conveyor sections	198	577
Plural sections with differing speeds	198	579
Elevator rope drive sheave	187	23
Multiple driving motors	475	1*
Planetary	475	220*
Register single axis	235	119
Register transfer mechanism	235	136
Sectional rotary bodies	74	444
Speed responsive device	73	507
Gearless	74	650
Material treatment		
Comminution of mixed solids	241	14
Sorting pretreatment	209	4*
Mechanism		
Brake operator movement	188	134
Chemical feed pressure control	137	100*
Fire extinguisher automatic valve	169	22
Flow meter pressure type	73	861.42*
Railway draft springs	213	26*
Sewing machine stitch forming feed	112	312*
Ships logs pressure type	73	182*
Telegraph system duplex	370	27
Telephone transmitter electrodes	381	168*
Motor	91	415*
Motor vehicle with	180	76
Differential Amplifier	330	69
Differentiating Circuit	333	19
Calculators having	235	61R*
Electronic tube type	328	127*
Diffraction	350	162.11*
Grating	350	162.17*
Diffuser		
Slow diffuser holder	239	34*
Sugar making	127	3*
Processes	127	43*
Diffusing (See Extracting)		
Air sterilizing	422	120*
Aircraft structure	244	136
Cabinets	312	31*
Fans	416	
Fumigators	422	305*
Gases for separation	55	158
Process	55	16
Thermal diffusion	55	209
Thermal diffusion process	55	81
Liquids through membranes	210	634*
Process in semiconductor device making	437	141
Sacchariferous material	127	3*
Sprinkling and spraying	239	
Digallic Acid	560	70
Digester & Digestion (See Extracting)		
Apparatus	422	307*
Fermentative	435	
Liquid purification	210	601*
Mineral oils	208	46*
Pulp apparatus	162	233*
Pulp processes	162	1*
Still combined	202	107
Digger	171	
Design	D15	10*
Hand tool	D 8	
Ditcher	37	80R*
Elevator	414	596*
Dredger	37	54*
Endless excavator	37	191R*
Fire arm: combined	42	93
Posthole		
Implement	294	50.6*
Machine	175	
Potato	171	
Rotary excavator	37	189*
Tunnel excavating	299	29*
Digital		
Clock	D10	15
Motor art digest	91	DIG. 1
Readouts	73	901*
Digital Data		
Communications	375	
Computer systems, general	364	200
Error correction	371	30*
Processing machines	364	900
Synchronous transmission	375	106*
Transmission of coded intelligence	178	28
Digital Memory	365	
Speech reproduction from	381	51*
Digitalis Glycosides	536	6.1
Dihydroabietic Acid	562	404
Dihydronovobiocin	536	13
Dihydrostreptomycin	536	15
Dihydrotachysterol	552	653
Diketo Purines	544	267*
Diketopyrimidines	544	309*
Dilatometry	374	55
Dilator		
Surgical instruments	606	191*
Surgical instruments combined	606	
Diluents Coating Compositions	106	311
Dimer (See Polymerization)		
Dimmer for Lamps	362	257*
Headlight systems	315	82*
Lamp systems	315	291*
Structure	323	905*
Dimpling Sheet Metal	72	414*
Testing ductility by	73	87
Dinas Brick	501	141
Dining Car	105	327
Dining Room Store Service	186	38*
Dinitroanthraquinones	552	254
Diode	313	
Beam power amplifier	313	298
With two cathodes	313	5
Damping	313	317
With emissive cathode	313	310
With thermionic cathode	313	310
With two cathodes and anodes	313	1
Duo pentode	313	298
Triode	313	303
Duplex hi mu triode	313	303
With two cathodes	313	5
Duplex pentode	313	298
With plural cathodes	313	5
Duplex triode	313	303
With plural cathodes	313	5
Duplex twin	313	307
Germanium	357	
Glow discharge	313	567*
High mu triode	313	303
With two cathodes	313	5
Light emitting	362	800*
Pentode	313	298
With two cathodes	313	5
Power amplifier pentode	313	298
With two cathodes	313	5
R F	313	317*
With emissive cathode	313	310
With thermionic cathode	313	310
Sharp cutoff pentode	313	298
With two cathodes	313	5
Triode pentode	313	298
With plural cathodes	313	6
Triple	313	1
Triple high mu triode	313	303
With plural cathodes	313	5
Triple triode	313	303
With plural cathodes	313	5
Twin	313	306
With two cathodes	313	1
Dielefin Hydrocarbon	585	16*
Purification	585	800*
Synthesis of	585	601*
Dieromes	272	9*
Dioxane	549	377
Dioxazine	544	63*
Dioxazoles	548	124
Dioxirane	549	200
Dip Pipe	202	255*
Dip-cup-provided inkwell	15	257.7*
Dispenser type	222	576*
Diphenoquinone	552	304
Dipole Antenna	343	793*
Dipper		
Excavators	414	685*
Dipping (See Coating)		
Animals	119	158
Apparatus for molding	425	269*
Molds or forms	425	275
Channel pumps	415	88*
Hat	223	10
Match making	144	60
Cutting and framing combined	144	52*
Frames	144	62*
Framing combined	144	58
Processes for forming by	264	301*
Trap chamber dispensing	222	356*
Endless belt	222	371
Rotary	222	369
Dips Animal	424	
Direct Current Distribution	307	
Pulsating telegraph systems	178	66.1*
Transmission to vehicles	191	
Direction		
Radio signaling	342	350*
Direction Indicator		
Design	D10	65*
Earth boring combined	175	45
Fluid flow velocity combined	73	188
Geographical	33	320
Navigation	73	178R
Radar	342	147
Register fare	235	48
Ships course	116	19
Traffic		
Barrier	404	6*
Director	404	9*
Vehicle	116	35R*
Design	D26	28*
Electrically operated system	340	465
Director Antenna	343	912*
Dirigible	244	24*
Disappearing Instrument Cabinet	312	21*
Disassembly (See Assembling)		
Apparatus	29	700*
Processes	29	426.1*
Battery	29	
Repairing combined	29	402.3*
Disc Recording or Reproducing		
Television	358	342*
Color	358	322
Disconnecting Devices (See Stop Mechanism)		
Dish (See Cup; Tray)	215	
Butter refrigerating	62	457.6
Design, general	D 7	502
Design, refrigerating	D15	89
Cleaner		

	Class	Subclass
Brushing	15	74
Liquid contacting	134	
Compartmented	D 7	555
Cover	215	200+
Covered	D 7	538
Design	D 7	500+
Design, simulative	D 7	571+
Drainer		
Compartmented	220	572+
Rack	211	41
Wire receptacle	220	487
Heater	126	246
Making		
Clay	425	263+
Clay	425	459
Paper and paper board	162	387+
Sheet metal container	413	
Stand	248	128+
Design	D 6	310+
Washer	134	
Design	D32	2+
Disher		
Ice cream cone	425	118
Ice cream scoops	425	221
Ice cream scoops	425	276+
Dishwasher	D32	2+
Dishwashing racks	D32	55
Disinfectants & Disinfecting	422	
Apparatus for treating air	422	120+
Baths closets sinks and spittoons	4	222+
Sewer	4	220
Spittoon	4	261
Strainer or stopper cover	4	294
Urinal	4	309+
Cabinet combined	312	31
Chemical holders for flush toilet	4	228+
Disinfectants	424	
Electrolytic	204	130+
Ozonizer	422	186.7+
Preparation and distribution	43	127
Animal treating	119	156+
Dusters or sprayers	239	
Fumigators vermin destroying	43	125+
Intermittent discharge type	422	123+
Receptacle attachment	220	87.1+
Telephone attachment	379	452
Thermometer case	206	306
Tobacco	131	290
Electrical or radiant energy	131	299
Vapor and fume generator	422	305+
Disintegrator (See Comminuting; Crusher)	241	
Etching with electric arc	219	68+
Machining with electron beam	219	68
Paper fiber	241	
Peat	44	633
Rock in situ	299	
Sugar treatment combined	127	4
Textile fiber preparation	19	82+
Tobacco leaf	131	311+
Feeding combined	131	109.1
Disk		
Agricultural implement	172	518+
Bearing for	384	460
Bearing support for	384	157
Harvester cutter	56	255+
Harvester cutter with conveyor	56	157+
Hedge trimmer	56	235
Planting by drilling	111	163+
Plow moldboard	172	167
Scraper for	172	558+
Sharpener combined	172	437
Amusement roundabout	272	46+
Animal powered motor	185	18
Brake	188	71.1+
For railway vehicle	188	58+
For velocipede	188	26
Brush rotary	15	180
Boot clean black and polish	15	34+
Handle mount	15	28+
Street sweeper	15	87
Calendar	40	113+
Carbon black making collector	422	150+
Card exhibitor	40	495+
Cathode ray tube stream concentrator	313	441+
Clock geographical	368	27
Closure seal	292	308+
Comminuting and grinding		
Abrading tool	51	358+
Cherry stoner	99	566
Comminutor	241	
Corn shellers	460	45
Disc grinding	51	
Floor surfacing machine	51	177
Grain huller	99	600+
Scouring machine	51	24+
Counting mechanism	235	98R
Coin	453	58+
Cutting		
Annular drills	408	204
Barrel stave jointing cutter	147	29
Button cutting	79	16
Can opener	30	435
Earth boring tool	175	373
Pipe cutter external	30	101+
Portable auger	408	204
Roller hand tool	30	307
Saw sharpening	76	45
Stone sawing	125	20
Sweep auger	408	199+
Tool sharpener	76	82
Tubular saw wood	408	204+
Wood	408	204
Wood dovetailing	144	89
Wood planer rotary cutter	144	118+
Wood sawing knife disc	83	469+
Wood turning chisel feed pattern	142	44
Educational elements	434	402
Electric conductor insulation	174	111
Electric generator armature	310	268+
Electrode consumable	314	44
Evaporator moving film support	159	9.1+
Feed for wood lathe	142	19
Feed for wood saw mill carriage	83	403.1
Feeder for nails	10	169
Flowmeter variable restriction	73	861.55+
Fluid distributor rotary	239	224
Gas and liquid contact impeller	261	84+
Gear sectional body	74	448+
Gearing frictional wheel and	74	194+
Laminated fabric disk making	156	
Magazines for target	124	46+
Making or working by rolling metal	72	67+
Metal rolling apparatus with disk platen	72	80+
Motion picture	352	102+
Paper closure assembling with container	493	108
Projectile holders	124	42+
Railway wheels	295	1+
Recorder record receiver	346	137
Recording and reproducing		
Compact disk	369	275.1+
Player	369	100+
Floppy disk	360	97.1
Player	360	99.1+
Optical disk	369	275.1+
Player	369	100+
Shaft coupling yielding element	464	98+
Non metallic	464	92+
Sound record	369	272+
Apparatus for molding with label applying	425	500+
Stacking racks for	211	49.1
Vehicle land wheel	301	63R+
Making	29	894.32+
Dislodging of Anchors	114	297
Dispatch Pneumatic	406	
Dispatching of Trains	246	2R+
Dispensing (See Notes to Main Class)	222	
Articles	221	
Beverage and food machines	D 7	300+
Cabinet		
Article	221	
Mixed drinks	222	129.1+
Spool holder and thread cutter	83	
Tearing	225	
Twine holder with cutter	83	
Coin handling	453	
Confetti	446	475
Container opening	206	601+
Dental apparatus	433	80+
Deposit & collection receptacles	232	
Device with wheels, skids, etc.	222	608+
Filling portable receptacles with fluent material	141	
Fire extinguishers	169	
Gas dispensing article	222	3+
Inkwell	222	576+
Molten metal	222	591+
Continuous casting	164	437+
Planting apparatus	111	25+
Refrigerated liquids	62	389+
Sprinkling, spraying, & diffusing fluids	239	
Store dispensing service	186	
Tape		
Gummed	83	
Length measuring	33	732+
Length measuring with cutting	83	522.11+
Magazine type dispenser	312	39
Roll or spool	206	389+
With fixed severing edge	225	
Track sanders	291	
Trap chambers	222	424.5+
Movable or conveyer type	222	344+
Unwinding and cutting fabrics	242	55+
Vending machines	D20	1+
Web or strand feeding	226	
Dispersing (See Colloids; Emulsifying)		
Agents	252	351+
Solids combined	252	363.5
Agitating	366	
Colloids	252	302+
Radioactive	252	634+
Compositions including agents for		
Bituminous material	106	278
Carbohydrate gum	106	208
Casein	106	146
Cellulose	106	203
Glue or gelatine	106	135
Natural resin	106	236+
Pigments	106	499+
Prolamine	106	153
Protein	106	161
Starch	106	213
Synthetic resin (See class 523, 524)		
Wax	106	271
Dyes including agents for	8	
Fermentation apparatus	435	287+
Foam control	435	812*
Medium for coating or plastic compositions	106	311
Solid disintegrating	241	
Display		
Animated	340	724+
Bank counters	109	10+
Boxes	217	11
Closures hinged	217	58
Compartmented	217	10
Design	D 9	414+
Folding	217	9
Sliding closure	217	63
Cabinet	312	114+
Frozen food, produce or meat	D 6	432+
With display opening	312	234
Card picture and sign	40	
Design	D20	10+
Design misc	D20	10+
Cathode ray tube	340	720+
Changeable exhibitor	40	446+
Container convertible for storage	206	44R
Device with gas or liquid movement	40	406+
Drying apparatus combined	34	88
Easels	248	441.1+
Educational devices	434	365
Electro-optic	350	330+
Electroluminescent	315	169.3
Electrophotographic copier	355	271
Envelopes	229	71
Forms	D20	10+
Furniture		
Design	D 6	
Garment forms	223	66+
Gas panel	315	169.4
Heads up	340	705
Integrated with circuit	340	718+
Letters sheets	229	92.3
Light systems electric control	340	286.1+
Liquid crystal	350	330+
Matrix	340	752+
Monogram	340	756+
Optical projection screen	350	117+
Packages	206	44R+
Photographic	355	18
Printed advertising	283	56
Racks	211	
For picture or business card	40	124
Receptacles	206	44R+
Refrigerators	62	246+
Open access	62	458

	Class	Subclass
Show cases	312	114+
Stands	261	DIG. 14
T V channel	358	192.1
Three dimensional movable figure	40	411+
Timepiece	368	223+
Trays	206	557+
Vehicle body feature	296	21
Wooden containers	217	9+
Wrappers	229	92.3
Disposal		
Closets sinks spittoons	4	
Crematory	110	194
Cutlery combined	30	124+
Incinerator	110	235+
Incinerator garbage	110	235+
Nuclear radioactive waste	252	626+
Razor combined	30	41
Receptacles collection	232	
Sewage treatment	210	
Sewerage	137	
Disproportionation		
Alicyclic hydrocarbon synthesis	585	375+
Aromatic synthesis	585	470+
Hydrogen exchange (See dehydrogenation; hydrogenation)		
Olefin synthesis	585	643+
Paraffin synthesis	585	708
Dissemination (See Scattering)		
Dissolves in Motion Pictures	352	91R
Dissolving (See Solvent)	423	658.5
Actinide series compounds	423	249+
Inorganic compounds	423	210+
Solids to produce cooling	62	4
Distance Measuring Devices	33	700+
Speed integrator	73	490
Distillation		
Apparatus	202	
Azeotropic	203	50+
Beverages alcoholic	426	
Bromine or iodine	423	500
Chemical apparatus combined	422	189+
Convertive	203	49
Distillate treatment (See vapor)		
Destructive distillation	201	29
Distillation combined	203	
Mineral oils	208	349
Extractive	203	50+
Filming	203	89
Filming	203	72
Flash	203	88
Fluidized bed	201	31
Heating and illuminating gas	48	
Mineral oils	208	347+
Conversion combined	208	46+
Rectification	208	350+
Separatory	203	
Stills	202	81+
Mineral oil	196	104+
Thermolytic	201	
Distillery		
Waste as fertilizer	71	26
Stock feed	426	635
Distortion Bucking in an Amplifier	330	149
Distortion Control		
Amplification	330	
Amplitude modulation	332	159+
Frequency modulation	332	123+
Metal deforming	72	701
Pulse modulation	332	107
Telegraphy	178	69A
Telephone circuit	379	414
Wave transmission lines and networks	333	
Distributing Material		
Ammunition filamentary material	102	504+
Bolt nail nut rivet screw making	10	162R+
Coating implement with material supply	401	
Conveyer power driven thrower	198	638+
Conveyer thrower powerdriven	198	638+
Distilland in retort	201	40
Drying		
Agitators	34	241+
Drum rotary	34	130+
Kilns	34	218+
Kilns plural	34	210+
Processes	34	11
Stationary receptacle	34	24
Ensilage	406	164+
Fluid centrifugal	239	214+
Gear friction pressure balancing	74	196
Gear worm	74	427
Gearing pressure	74	410
Hay	414	25
Letter boxes compartment	232	26
Mobile orchard type	239	77+
Pamphlets from aircraft	40	216
Pastry machine combined	425	289+
Railway track layers	104	5+
Road material	404	101+
Scattering unloader	239	650+
Sifters	209	254
Stratifiers	209	498
Type cases	276	44+
Type casting machine	199	33+
Type casting machine combined	199	14+
Type setting machine	276	22+
Type setting machine combined	276	2+
Wire nail making	10	44
Distribution		
Boxes for electric conductors	174	50+
Electric current	307	
Fluid (See ventilation)		
Gas or mist	102	367+
Handling	137	
Motors expansible chamber	91	
Motors valve actuation	91	
Nozzles	239	
Gas in gas mains	48	190+
Distribution Amplifier	330	54
Distributor Electric		
Auto	200	6R+
Ignition circuit	315	210
Ignition system	123	146.5 R+
Conductors		
Combined	174	73.1
Overhead	174	43
Underground	174	38
Ignition		
Structure	200	23+
System	123	143R+
System	315	211+
Insulators combined	174	140R
Signalling transmitters	341	192
Switch multiple circuit	200	1R+
Switch periodic	200	19DR+
Systems miscellaneous	307	
Telegraphy multiplex	370	46+
Telephone switchboards	379	319+
Transmission to vehicle	191	2+
X ray tubes potential stress	378	139
Ditch Filler	37	142.5
Ditcher	37	80R+
Elevator	414	596+
Filler	37	142.5
Dithiazoles	548	123
Dithionites		
Reducing composition	252	188.22
Dithiosulfurous Acid Esters	560	310
Diversity Receiver	455	132+
Divider		
Assorter discharging	209	493
Dough, severing apparatus general	225	93
Fleece	19	151
Fluid flow porportional	137	118+
Gauges point markers	33	665
Center	33	670+
Proportional	33	663+
Harvester track clearing	56	314
Opposed contact	33	558.1+
Road	404	6+
Scribing	33	18.1+
Diving Apparatus	405	185+
Artificial gill	128	200.25
Board	D21	236
Helmets	2	2.1 R
Suits	2	2.1 R
Air or oxygen supply	128	201.29+
Buoyant or swimming feature	441	88+
Submarine working device	405	186+
Divining Rods	324	800*
Dobby Loom	139	66R+
Griff vibrating	139	67
Dock		
Drydocks	405	4+
Floating	114	45+
Doctor Blade (See Device or Apparatus with which Associated))		
Electrophotographic copier	355	299
Document	283	
Handling		
Electrophotographic copier	355	308+
Holder		
Electrophotographic copier	355	230+
Sales	283	60.1+
Documentation Computer Application	364	419
Doffing		
Bobbin and cop winding combined	242	41
Carding combined	19	106A
Conveyer section	198	622
Ginning combined		
Delinters	19	42+
Saw	19	58+
Magnetic solids separator or classifier combined	209	229+
Spinning, twisting, or twining combined	57	266+
Preparation for	57	276+
Vegetable cutter or comminutor combined		
Parer and corer	99	542
Parer corer and segmenter	99	543
Parer corer and slicer	99	543
Peeler or parer	99	588+
Dog		
Collar	119	106
Design	D30	152
With leash or tether	119	118
Driven ratchet bar combined	74	169
Foodstuff	D 1	
For bolt	70	467+
Furnace fire	126	298
Harness	54	
House	D30	108+
Kennels	119	19
Muzzle	119	30+
Sawmill	83	721
Set works end	83	730
Sewing machine feeding	112	324
Turning lathe	82	166+
Woodworking bench	144	306+
Doily	428	81+
Embroidery, design	D 6	613+
Furniture protector	D 6	613+
Dollies		
Article supporting	280	47.34+
Design	D34	23
Hoisting trucks	254	2R+
Rivet	227	
Washing machine	68	138
Dolls	446	268+
Aquatic	446	156+
Assembling and disassembling	29	805
Design	D21	148+
Eating drinking nursing	446	304+
Sleeping	446	345+
Talking crying	446	297+
Wheeled	446	270+
Voices	446	297+
Pneumatic	446	188+
Wheeled	446	269+
Inflatable	446	226
Dolomite Refractory Compositions	501	113
Dome		
Arcuate design	D25	19
Building structures	52	80+
Fire tube	122	116
Geodesic design	D25	13
Lantern	362	182
Tubular	362	173
Lights vehicle	362	61
Steam	122	508
Separator	122	492
Superheater	122	486
Track sander hopper	291	40
Dominoes	273	292+
Donning		
Empty spinning bobbins	57	266+
Preparatory	57	276+
Door (See Closure)		
Bar for jamming closed	D 8	331+
Bells electric	340	392+
Braces	52	291
Brakes, track or guideway	16	DIG. 2
Cabinet		
Sectional unit	312	109+
Showcase	312	138.1+
Channel for sliding door	D25	119+
Checks	16	82+
Checks and closures	16	49+
Chimes	D10	118
Coin controlled	194	
Curved cast archway	52	85

	Class	Subclass
Design	D25	48*
Electric		
Contacts for burglar alarms	200	61.93
Elevator	187	51*
Flexible roll	160	238*
Folding	160	229.1*
Sliding together	160	222*
Frame	49	504
In situ structure	52	204*
Guards	49	50*
Handles (See --, knob)	16	110R*
Latch	16	DIG. 32
Opening apparatus	16	DIG. 7
Hanger or track	16	87R*
Hinges	16	221*
Jail	49	15*
Keyhole		
Fluorescent	250	466.1
Illuminator	362	100*
Knob	16	121*
Design	D 8	
With spindle attachment	292	347*
Knockers	116	148
Design	D 8	401*
Land vehicle	296	146*
Latch (See closure, fastener)		
Latch bolts, biased	70	144
Dog for bolt	70	467*
Lock	70	91*
Keepers	292	340*
Railway	105	395
Mat	15	215*
Motor vehicle (See closure)		
Operators	49	324*
Ornamental panel	52	311*
Overhead door	16	DIG. 1
Panel warp correction	52	291
Plate or sign for	D20	43*
Plural panels	52	455*
Pneumatic-type closer	D 8	330
Railway		
Dumping car	105	280*
Emergency	105	348*
Platform trap	105	426*
Vehicle restrained	246	304*
Releasers	292	341.16
Removers	414	684.3
Traversing hoist	212	166
Sectional panel	52	455*
Ships	114	116*
Silencer	D 8	400
Sliding	49	404*
Stop	D 8	402
Stove, furnace or oven		
Casings furnace	110	181
Cooling furnace	110	180
Furnace	110	173R*
Stove	126	190*
Switches	200	61.62*
Lamp or electronic tube system	315	84
Track	D 8	377
Trim	52	211*
Troughs	49	408
Ventilating	98	87
Stove	126	198
Work holder for door and frame	269	905*
Dop Jewel Holder	51	229
Doping		
To form semiconductor P-N type junction	437	16*
Alloying	437	134*
Diffusing	437	141*
Fusing dopant with substrate	437	134*
Using energy beam	437	16*
While depositing material	437	81*
Doping Agent Source Material	252	950*
For vapor transport	252	951*
Doppler Compensation Systems	367	904*
Dorr Classifier	209	462
Dosage-related Cabinet	312	234*
Dosing Device		
Dispensing	222	
Indicator for medicine	116	308
Medicators	604	
Dot		
Dot type mosaic screen cathode ray tube	313	472
Printer	400	124
Double Antibody Test	436	540
Double Bond Shift (See Isomerization)		
Doubler	202	199
Doublet Antenna	343	793*
Doubling		
Twisting strands		
Covering or wrapping	57	14
Delivery twist	57	59*
Ends or hooks	57	26*
Receiving twist	57	66*
Winding bobbins and cops	242	42
Fault detecting	242	38
Fault detecting load	242	40
Douche	604	36*
Hand held	604	212
Nozzle with separate ingress & egress	604	39
Treating material introduced	604	54
Dough		
Compositions	426	549*
Crimping devices	425	293
Cutting machines	83	
Dividing machines	425	289*
Forming, molding and working	425	197*
Forming, molding and working	425	200*
Kneading machines	366	69*
Kneading machines	425	197*
Kneading machines	425	200*
Mixing machines	366	69*
Packaging or wrapping	426	392*
Presses	425	
Raisers	126	281*
Rollers	425	294
Rollers	425	329
Testing	73	169
Doughnut	426	496
Cookers		
Deep fat fryer type	99	403*
Forming or shaping combined	99	354
Opposed heated surface type	99	382
Support combined	99	442
Deep fry process	426	439
Design	D 1	120
Dough fermentation	426	18
Doup Heddle	139	51*
Dovetailing		
Bedstead corner fastening	5	300
Design	D 6	503*
Calks	168	35
Woodworking	144	85*
Dowel		
Jigs	408	72R*
Pins	403	292*
Making	144	12
Module connector	52	585
Road joint	404	47*
Downdraft		
Furnaces	110	315
Hot air furnace	126	103
Liquid heaters and vaporizers		
Fire tube	122	97
Water tube	122	286
Stove	126	76
Downspout	52	16
Doxycycline	552	203
Draft		
Air current		
Back draft preventer	98	119
Boiler	122	
Control to combustion chamber	431	20
Downdraft furnace	110	315
Forced draft fumigant burner	43	125*
Heating stove downdraft	126	76
Hot air furnace downdraft	126	103
Intermediate in superimposed fire box with air or steam	110	267*
Stove damper	126	290
Superimposed fire box and intermediate draft	110	317
Appliance		
Animal	278	
Articulated vehicle train	280	400
Cable hoist	212	76*
Cable railway	104	193
Horse drawn sweep	185	23
Monorail animal draft	105	143
Railway	213	
Wheeled horse rake draft dumping	56	386*
Equalizer		
Animal draft appliance	278	3*
Horse drawn sweep	185	22
Gauges	73	700*
Regulator		
Boiler	122	38
Damper	126	285R*
Damper automatic	236	45
Furnace	110	147*
Spark arrester combined	110	123
Drafting (See Drawing)		
Board		
Cabinet combined	312	231
Implement	D19	35*
Box for	206	371
Curved ruler type	33	561.2*
Scriber type	33	18.1*
Straightedge type	33	403*
Table	D 6	420
Draft Fibers	19	236*
Drag		
Animal restraining	119	107
Classifier	209	462
Conveyer chains	198	717*
Conveyor chains for viscous fluids	198	643
Drilling planting machine	111	84
Earth working	172	
Fishing reel	242	283*
Land vehicle type of	280	19
Line scraper	172	26.5
Metal casting sand	164	349*
Oil distributor	114	234
Reciprocating saw machine	83	746*
Saw guide	83	821
Sea anchor	114	311
Design	D12	215
Ships log	73	184*
Spinning reel	242	243*
Textile spinning and twisting	57	113
Bobbin	57	72
Flier type bobbin	57	70
Drain and Drainage		
Building construction	52	302*
Cabinets with	312	229
Conduit electrical	191	26
Dispenser	141	364
Footwear with	36	3R
Fryer deep fat	99	410*
Machine fluid treating	68	208
Photographic wet plates	354	280
Pipe cleaner	15	104.31*
Pump	417	437
Road or pavement	404	2*
Roll type clothes wringer	68	271
Roofing interior	52	553
Gutter	52	11*
Safes or banks	109	28
Sand	405	50
Sewerage	210	163*
Shield	D23	261
Sink	4	650*
Soil	405	36*
Static mold having fluid	249	141
Sugar centrifugals	127	19
Surgical	604	264*
Table surgical	108	24
Washing machines	68	208
Wringer roll	68	271
Drain Board (See Dish, Drainer)		
Sink accessory	D32	56
Tub with	4	637
Attachment	4	656
Design	D23	277*
Draperies	160	330*
Hook	16	93D
Surgical	128	
Tie back, fabric	D 6	578
Tie back, rigid	D 8	368
Draw		
Press	72	343*
Drawbar		
Articulated vehicles combined	280	400*
Bedstead corner fastening	5	298
Elastic extension device inclosing	267	72
Railway	213	62R*
Car forging dies	72	343*
Car making	72	
Drawbridge	14	31*
Electrical transmission to	191	9
Floating	14	29*
Protection switch or signal	246	118*
Drawer		
Bed combined	5	308
Cabinet	312	
Horizontal sliding	312	330.1*
Cash register operation	235	22

	Class	Subclass
Element of sofa bed	5	58
Key set cash register operated by	235	10
Knob labels and tags	40	331*
Locks	70	85*
Plate or sign for	D20	43*
Pull labels and tags	40	325
Refrigerated	62	382
Air blocking when open	62	266
Drawing (See Drafting)		
Abrading rael	51	75
Board		
Cabinet combined	312	231
Design	D19	52
Straight edge mounting	33	430*
Die	72	467
Easels	248	441.1*
Etching combined with	156	658
Glass	65	193*
Process	65	66*
Implement	D19	35*
Manufacturing glass		
Product by	65	
Material, design of	D19	35*
Mechanical instruments	33	
Mercury vapor lamp starting by	313	170*
Metal	72	
Cup or shell	72	347*
Method & apparatus	29	DIG. 11
Push drawing	72	343
Rolling combined	72	206
Sheet die shaping	72	380*
Spinning	72	82*
Wire or tube	72	274*
Pen	401	267
Design	D19	41*
Perspective instruments	33	IK
Reverse drawing on metal	72	708*
Textile fiber	19	236
Textile spinning, twisting, twining		
Combined	57	315*
Rollers	57	97
Triangles	33	474
Visual arts	434	85*
Drawknives	30	313
Drawplate		
Diamond setting	76	107.1*
Drawstring	24	712
Dredge		
Excavating	37	54*
Submerged vessel raising	114	55
Dredge Top Dispenser	222	480
Dress	D 2	49*
Dressmaker	D 2	195
Garment	2	71*
Forms	223	68*
Hangers	223	92*
Protector	2	46*
Shield pressing	223	54
Weights	2	273
Maternity	2	76
Sifting screen	209	392*
Wheel guards	280	160.1
Dresser, Fish Preparation Tool	D 7	693*
Dresser, Furniture	D 6	432*
Dressing		
Brushes and brooms	300	18
Meat and fowl	17	
Saw making		
Jointing and gaging combined	76	46
Jointing combined	76	50.4*
Separating screen	209	392*
Separating solids	209	
Stone working	125	2*
Diamond tool for	125	39
Grindstones	125	11.11
Millstone	125	27*
Surgical (See bandaging)		
Tobacco		
Fluid or fluent material	131	300*
Smoothing brushing rolling	131	324*
Stemming combined	131	315*
Warps	28	178*
Dressmaker	D 2	195
Dried Fruits and Vegetables	426	640*
Drier and Drying (See Dehydration)	34	
Blotter or towel type	34	95*
Non-drying device combined	34	89.1*
Cigar and cigarette making		
Tip or mouthpiece applying	131	92
Wrapper sealing	131	68
Clothes	34	
Automatic	34	43*
Clothes drying rack	D32	58
Machine design	D32	8
Coating combined with drying	427	372.2*
Collar cuff and bosom making	223	3
Composition	106	310
Drying oils combined	106	264
For coating	106	310
Dress coat or skirt forming and stretching	223	69
Dry closet	4	111.1*
Fishing line	242	104
Fruits and vegetables dehydrating	426	471*
Garbage and sewerage furnace	110	224*
Gas and vapor contact with solids	34	
Hair dryer	D28	12*
Hand dryer	D28	54.1
Methods	34	3*
Milk dehydrating	426	471*
Mortar mixer combined	366	22*
Paper article making		
Box making	493	141*
Envelope making	493	265
Rack	211	
Refuse treatment means	110	224*
Shoe and boot	34	104
Solids apparatus	34	43*
Textiles		
Thread finishing, heating or drying	28	219
Washing machine combined	68	20
Web spreader combined	26	92
Web stretching combined	26	106
Tobacco	131	300*
Wood bending	144	254
Drift		
Indicator (See direction indicator)		
Pin	29	275
Drill (See Bit)		
Bit	D15	138*
Dental	433	165*
Chucks	279	
Cigar tip perforators	131	254
Dentists	433	165
Design	D24	12
Drilling machines	408	
Drills	408	199*
Design	D15	139
Design hand tool	D 8	59
Earth boring	175	327*
Expansible	175	263*
Grain planting	111	14*
Grinding processes	51	288
Making and sharpening machines	76	5.1*
Making blanks and processes	76	108.1*
Press	408	72R*
Press type combined metal working machine	29	26R*
Pyramidal end	125	1
Rack for	211	69
Rail portable	408	77
Receptacles special for	206	379
Rock	175	327*
Trepan	606	176*
Twist for metalworking	408	230
Twisting stock to make	72	299
Vise attached	29	560.1
Well	175	
Woodworking	408	199*
Drilling (See Boring)		
Borehole and drilling study	73	151
Brush making tuft setting and	300	3
Button making	79	11*
Pearl button surfacing and	79	6
Earth	175	
Grain drill chute	193	9
Machines		
Dental	433	103*
Driving or impacting	173	
Radial	408	236*
Rock	175	
Mining implement	299	79*
Muds		
Analysis	73	153
Compositions	252	8.51
Earth boring with	175	65*
Planting	111	14*
Broadcasting and	111	8*
Liquid or gas	111	118*
Plant setting	111	109*
Solid material	408	
Electric	310	
Well	175	
Marine platform	405	195*
Drink		
Preparation or dispensing machines	D 7	300*
Registers	235	94R
Drinking Fountain	239	24*
Animal watering devices	119	72*
Design	D30	121*
Design	D 7	304
Tube	239	33
Filter combined	210	251
Drinking Straw	239	33
Drinking Vessel		
Container for collapsible type	206	218*
Drinking Water		
Chemical purification	210	198.1*
Process	210	601*
Filtering	210	348*
Decanting combined	210	294*
Drip		
Building attached deflector	52	97
Catcher (See drip pan)		
Closet bowl	4	252A
Coating implement adjunct	401	15
Cooking apparatus	99	444*
Dispenser	222	108*
Fluid sprayer or sprinkler	239	120*
Gas separation apparatus	55	280
Griddle	99	425
Inverted container support with	141	364
Refrigerator defrost water	62	285*
Refrigerator ice melt	62	459*
Refrigerator ice melt filter	62	318
Toaster	99	400
Waffle type cooker	99	375
Water heating vessels	126	383*
Coffee maker	99	306
Collector	431	119
Cooled		
Ice melt gas contactor	62	312*
Ice melt heat exchanger	62	460*
Wet wall type refrigerator	62	278
Cup		
Cleaning attachment	15	248R*
Umbrella	135	48
Liquid diffusers	239	38
Meters	604	251
Drip sensor	604	253
Filter	604	252
Flow control	604	246
Pan (See drip catcher)		
Liquid fuel cooking stove	126	51
Lubricators	184	106
Vehicle body	296	38
Plate		
Boiler feed heater	122	417
Water heater	126	355
Drive in Theatres	52	6*
Anchor	52	155
Supported building component	52	292*
Earth piercer	52	155*
Terranean relationship	52	169.1*
Drive or Driver		
Barrel hoop	147	7*
Barrel tap	81	27
With dispensing	222	81*
Bolt or nut	81	52*
Centrifugal separators	210	360.1*
Conveyor endless	198	832*
Earth boring tool combined	175	170*
Impact	175	135
Elongated-member driving apparatus	227	
Golf club	273	77R
Design	D21	214*
Hammer	173	90*
Design	D 8	75*
Hill planting machine belt feed	111	19
Locomotive	105	26.5*
Mallets	81	19
Nail		
Implements	227	140*
Machine	227	
Pile	173	90*
Railway car wheel or axle	105	96*
Railway turntable actuator	104	41
Screw driver implement	81	436*
Screw driving machine	81	54
Sewing machine	112	220*
Shoe lasting and nailing	12	13.1
Tap driving ratchet	408	120*

	Class	Subclass
Tool	173	
Track spike	104	17.1
Trackmans car	105	86*
Turning work	82	166*
Well point	175	
Driven Headed and Screw Threaded		
Devices	411	
Railway spikes	238	366*
Drop		
Annunciator systems	340	286.11*
Annunciators	340	815.29*
Bomb	102	382*
Forging	72	435*
Fluid operated	72	453.1*
Hammer	72	435*
Pick up for overhead railway car	104	122
Store service	186	22*
Telephone switchboard restorers	379	315*
Dropper		
Animal waterer	119	72.5
Cash register indicator tablet	235	25
Dispenser	222	420*
Medicine dropper type	141	24
Medicine	604	295*
Combined with bottle, design	D 9	338
Combined with closure, design	D 9	447
Droppings Catcher		
Dispenser	222	108*
Railway	104	133
Drugs	424	
Bio-affecting & body treating compositions	514	
Acromycines	514	285
Allantoin	514	390
Amantadine	514	656
Amphetamine	514	654
Ampicillin	514	198
Amprotropine	514	534
Aspirin	514	165
Atropine	514	304
Barbituric acid	514	270
Benzocaine	514	535
Benzomorphans	514	295
Biotin	514	387
Capsaicin	514	627
Cephalosporins	514	200*
Chlorpheniramine	514	357
Cholecalciferol	514	167
Chrysanthemic acid	514	572
Cobalamin	514	52
Codeine	514	282
Colchicine	514	629
Cortisone	514	179
Cupreine	514	305
Cycloheximide	514	328
Cyproheptadine	514	325
Cysteine ester	514	550
D D T	514	748
D D V P	514	136
Dextrometorphan	514	289
Dyphylline	514	263
Ephedrine	514	653
Estradiol	514	182
Fluspirilene	514	278
Glaucine	514	284
Glaumine	514	669
Griseofulvin	514	462
Hexachlorophene	514	735
Hydrocortisone	514	179
Isoniazid	514	354
Malathion	514	122
Melatonin	514	415
Meperidine	514	330
Methadone	514	648
Methapyrilene	514	336
Methamyl	514	477
Morphinans	514	289
Morphine	514	282
Nandrolone	514	178*
Niacinamide	514	355
Nicotinamide	514	355
Nicotine acid	514	356
Nortestosterone	514	178
Novocaine	514	535
Oxolinic acid	514	291
Parathion	514	132
Penicillin G	514	199
Perdnisolone	514	179
Perimidines	514	269
Phenylephrine	514	653
Phenyltoloxamine	514	651
Pilocarpine	514	397
Pimozide	514	323
Piromidic acid	514	303
Procaine	514	535
Progesterone	514	177
Psoralen	514	455
Pteridine	514	249
Purines	514	261
Quinicine	514	314
Quinidine	514	305
Quinine	514	305
Quinoxaline	514	249
Riboflavines	514	251
Salinomycin	514	460
Scopolamine	514	291
Tartaric acid	514	574
Tetracycline	514	152
Tetramisole	514	368
Theophilline	514	263
Thiamines	514	276
Tocopherols	514	458
Tripelennamine	514	352
Tryptophan	514	419
Tyrosine	514	567
Uracil	514	274
Vinblastine	514	283
Vincamine	514	283
Viquidil	514	314
Childproof bottle closures	215	201*
Drugs of abuse	436	901*
Radioactive	424	1.1*
Drums (See Cylinders; Rollers)		
Armature (See armature)	310	265
Brake	188	218R
Cask or	D34	39
Centrifugal (See centrifugal force, separators)		
Container type	220	
Earthworking or smoothing (See rolls & rollers, land)		
Evaporator moving film support	159	9.1
Treated material inside drum	159	9.2
Material separating (See separator)		
Musical	84	411R*
Automatic	84	104
Rotary furnace	432	103*
Metallurgical	266	173
Rotary heat exchange	165	89*
Rotary or tilting support	384	549
Stand	248	128*
Tumbling device for abrading	51	164.1
Winding (See coiling winding)		
Drumstick	84	422.4
Dry Cell Battery	429	156
Recharging system	320	4*
Thermoelectric & photoelectric	136	
Dry Cleaning	8	142
Cleaner compositions	252	89.1*
Machinery design	D32	10
Dry Closet	4	449*
Furnace combined	4	111.1*
Dry Disk Rectifier	357	
Dry Dock	405	4*
Floating	114	45*
Dry Ice T M Solid Carbon Dioxide		
Making	62	8*
Process	62	10
Shaping combined	62	35
Refrigeration by	62	384*
Automatic	62	165*
Dryers (See Drier & Drying)		
Drying Japans	106	310
Drying Oil	260	398*
Composition containing	106	252*
Natural resin containing	106	222*
Fatty oil with preservative	106	263
Hydrocarbon	585	945*
Mineral oil	208	1
Polymers ctg (See synthetic resin or natural rubber)		
Drywall Construction	52	344*
Strip	52	459*
Dual-in-line Electronic Package	174	52.4
With semiconductor	357	74
Duck		
Calls	446	207*
Decoys	43	3
Duct (See Conduit)		
Humidifier	261	DIG. 15
Ductility Testing	73	87
Dulcimer	84	284
Dumb Waiter	187	3*
Dumbbell	272	122*
Dumdum Bullet	102	507*
Dummy		
Ammunition	102	444*
Bomb	102	395
Shell	102	498
Clothes and other display	40	538
Figure dispenser	222	78
Figure toys	446	268*
Aquatic	446	156*
Inflatable	446	226
Wheeled	446	269*
Pyrotechnics	102	355
Tackling	273	55R
Dumping Mechanism		
Cable hoist	212	79*
Clothes washing machines	68	210
Egg candling trays	356	65
Furnace ash pan	110	167*
Hand shovel	414	722*
Mortar mixer	366	45*
Nuclear reactor	376	261
Portable receptacle	414	403*
Safes	109	46
Shelf to shelf flow drying apparatus	34	172
Stove grates	126	162
Rocking bar	126	177
Shaking combined	126	158
Vertical axis oscillatory	126	171
Vehicle	298	
Horse rake	56	386*
Railway	105	239*
Moving car	105	241.1
Rake and tedder	56	368
Roadway with external	414	354*
Scoop	37	140
Scow	114	27*
Wheeled toy	446	428
Water closet	4	365*
Dune Buggy Design	D12	87
Dunnage		
Element	267	136*
For container	220	429
For freight	410	121
Edge-around	410	155
Honeycomb	410	154
Duplex Copy		
Electrophotographic copier	355	319*
Duplex Diplex System	370	36
Duplex Telegraph System	370	24*
Duplicate Whist and Other Card Hand Holding Apparatus	273	151
Duplicating (See Manifolding)		
Cutting machine	409	93
Keys	409	81*
Machines	D18	13*
Pattern controlled		
Milling machine	409	79*
Sheet or card punching	234	59*
Plural ribbon typewriter	400	204*
Printing machine	101	113
Selecting or progressive	101	90
Ticket printing machine	101	67*
Durez T M (phenoplast)	528	129
Durequinone	552	310
Dust		
Carburetor	406	
Collectors		
Abrading machines	51	273
Cabinet with	312	229
Dental engine	433	116
Design	D32	15*
Earth boring cuttings	175	207*
Gas separator with	55	429
Textile spinning apparatus	57	300*
With air blast or suction cleaner	15	347*
Woodworking machines	144	252R
Conveyor		
Threshing machine	460	117
Woodworking	144	252R
Cover		
Billiard and pool table	273	13
Inflation stem type	138	89.4
Inflation stem type air and	138	89.1*
Vehicle top	296	136
Wheel and valve stem with	152	428
Fixation	404	76
Guard		
Car ventilation	98	25*
Locomotive cab	98	28

	Class	Subclass
Motor vehicle	180	84
Passenger railway car body	105	350*
Typewriter bar	400	467*
Vehicle	280	159
Vehicle mud and	280	847*
Watch and clock keys with	81	123
Laying compositions	252	88
Pan	15	257.1*
Design	D32	74
Separators		
Cleaning	15	
Gas and	55	
With air blast or suction cleaner	15	347*
Dust Core	148	300*
Making	148	104
Structure	336	233*
Dust Pan	D32	74
Duster (See Dispensing; Distributing; Sprayer; Spreader)		
Animal antivermin treatment	119	159
Coating apparatus	118	308*
Feather	15	234
Design	D32	40*
Insect powder	239	
Design	D 8	2
Mobile orchard type	239	77*
Dwelling		
Cleaning		
Installed air blast or suction systems	15	301*
Dye		
Coating or plastic compositions containing	106	
Compositions & processes	8	
Cake, tablet or powder form	8	524*
Compounds anthraquinone	552	208*
Anthrone	552	271*
Azo	534	653
Triphenylmethane	552	101*
Envelope sealing flap combined	229	83
Food	426	540*
Hair	8	
Mordant	430	941*
Oxidizable dyes	436	904*
Sensitizer in photoconductive composition	430	60*
Synthetic resin or natural rubber (See class 523, 524)		
Dyeing	8	
Electrolytic	204	134
Fluid treating apparatus	68	
Hair	8	
Mordanting	8	
Sewing combined	112	17
Textile operation combined	28	169
Warp preparation	28	178
Dynamics, Teaching	434	302
Dynamite	149	
Making	149	
Dynamo	310	
Brush holders	310	239*
Brushes	310	248*
Commutators	310	233*
Connecting in parallel	307	43*
Electric machines	310	10*
Electric prime mover plant	290	
Internal combustion engine igniters	123	149R
Nonelectric prime mover plant	290	
Railway locomotive	105	35*
Telegraph systems	178	65
Dynamoelectric		
Educational demonstration	434	380
Electromagnet like linear motor or generator	335	209*
Geophysical transducer	367	140*
Linear	310	12*
Linear	310	15*
Oscillating	310	36*
Mechanical motion converter	310	37
Reciprocating	310	15*
Rotary		
Amplifier system linear	330	58
Bearing adjustable	310	90
Coated	310	45
Combined with other device	310	66*
Connector on	310	71*
Cooling	310	52
Cooling circulating type	310	58
Cooling filtered coolant	310	56
Cooling liquid	310	54
Cooling nonatmospheric gas	310	55
Cooling sealed type	310	57
Cooling self forced	310	60R*
Cooling treated coolant	310	56
Cooling with control	310	53
Cooling with purifying means	310	56
Cover combined	310	89
Dirt proofed	310	88
Explosion proofed	310	88
Flywheel combined	310	74
Housing combined	310	89
Housing for	310	85
Electrical apparatus	361	331
Illumination	310	73
Impregnated	310	45
Inbuilt or incorporated unit	310	67R
Inertia device for	310	74
Lamp as part	310	73
Lead in for	310	71
Lubrication	310	90
Manufacture	310	42
Manufacture	29	596*
Mechanical shield with	310	85
Moisture proofed	310	88
Molded plastic part	310	43
Powdered metal part	310	44
Shaft and armature timing	310	79
Shaft driven switch	310	69*
Shield between armature and field	310	86
Sound proofed	310	51
Submerged	310	87
Support combined	310	91
Terminal on	310	71
Underwater type	310	87
Vibration damped	310	51
With impedance , capacitor or resistor	310	72
With plastic part	310	43
With sintered part	310	44
Dynamometer	73	862
Dynamotor, electric brake	310	93
Electric meter	324	144*
Strength of material test	73	836
Dynatron, Oscillator	331	133
Demodulator	329	
Dynel T M (polyacrylonitrile Vinyl Chloride)	526	342
Dyphylline, in Drug	514	263
E-layers in Thermo Nuclear Reactions	376	126
Ear		
Coupling detachable janney type	213	157
Guards	2	2*
Design	D29	19
Surgical	128	857*
Hair cutters	30	29.5
Pieces		
Eyeglass with protective	351	122
Speaking tube combined	181	20
Telephone	381	187
Design	D14	249
Plug	D24	67
Receptacle		
Bail	220	91*
Wooden bucket	217	126
Surgical treatment electrical	128	789
Syringes	604	187*
Trolley support	191	43*
Insulator	191	42
Trumpets	181	129*
Earmuff	2	209
Design	D29	19
Earplug	D24	67
Earring	63	12*
Design	D11	40*
Earth (See Type of Earth Working Equipment)		
Boring	175	
Compositions	252	8.51
Carrier wave communication system	455	40
Combustion in situ	166	256
Electric current through	166	248
Electrolyte or conductor in batteries, having earth feature	429	47
Engineering	405	
Caissons	405	8*
Diving	405	194
Dry docks	405	4*
Earth control	405	258*
Marine ways	405	2
Pipe and cable laying	405	154*
Ship caissons	405	12*
Stable structures in shifting media	405	229
Marine structures	405	195
Tunnel	405	132*
Underground fluid storage	405	53*
Water control	405	52*
Excavating	37	
Getter for lamps etc	252	181.7
Grounds	174	6*
Induction compass	33	361*
Metals preparation		
Pyrometallurgy	75	605*
Electrolytic	204	59R*
Pyrometallurgy	75	605*
Mining of in situ disintegration of hard material	299	
Planting	111	
Pulse or digital communications	375	6
Rare earths	156	DIG. 63
Roadway stabilization	404	76
Sciences computerized, monitored	364	420
Stabilizing for mining	299	11
Transmission teledynamic systems	455	68
Unearthing plants or buried objects	171	
Wells	166	
Working	172	
Earthenware		
Apparatus for shaping	425	
Decorating	427	256*
Final coating nonuniform	427	269
Nonuniform coating	427	287
Plural nonuniform coating	427	266
Glazing apparatus	118	
Earthing (See Grounds Electric)	174	6*
Earthquake Proof Construction	52	167
Earthquake Recorders	346	
Seismographs		
Electrical	367	115
Mechanical	181	
Earthworking	172	
Excavating	37	
Earthworm Agitator		
Electric		
Earth grounds	174	6*
Electrocuting	43	98*
Prods	47	1.3
Trapping	43	58*
Earvent or Drain	606	109
Easel	248	441.1*
Body supported	248	444
Collapsible	248	460*
Copyholder	248	441.1*
Advanceable copytype	40	342*
Line guide type	40	352*
Painters	248	444*
Photographic enlarging		
For original	355	75*
For photosensitive paper	355	72*
Seat with	D 6	335*
Wall mounted	248	447.1*
Watch and clock	248	442
Easy Out Extractor	81	436*
Eaves Trough	52	11*
Supports	248	48.1*
Ebonite	525	332.6
Ebullioscope	73	53
Eburnamonine	546	50
Eccentric	74	570*
Adjustment of frictional gearing	74	211
Belt tightener	474	112
Chucks and sockets	279	6
Drive mechanical movement	74	116*
Drive shaft for gearing	74	390
Gearing	74	393
Planetary	475	162*
Instruments	33	DIG. 8
Pivot cutter	30	104
Weight wheeled toy	446	458
Wheel mounts vehicle	280	229
Ecgonine	546	131
Echo Sounding	367	87
Economics Teaching	434	107*
Economizers		
Feed water	122	412*
Ecraseur	606	135*
Edge (See Border; Cutter)		
Beading metal sheet	72	102*
Beveling pencil sharpener	144	28.2
Binding and covering	29	243.58
Binding or protector		
Skirt garment	2	222
Coating method	427	284*

	Class	Subclass
Curling by bending rolls	72	102+
Cutter	83	425.2+
Fabric bed bottom	5	192
Flanging metal	72	352+
Grinding lenses (See templet)		
Guarded cutting		
Cutlery	30	286+
Manicure cutlery	30	27
Razor	30	51+
Hand gardening tool	172	371
Design	D 8	1+
Indenting shoe sole	12	32
Knitted garment antiravel portion	66	172R+
Mattress	5	474
Panel e. g. table top	52	782+
Resilient strip	52	397+
Retainer	52	764+
Reinforcing		
Laminated strand	156	166
Metallic container	220	640+
Runner mill comminutor	241	107+
Serrating		
Paper box making	493	56+
Tool sharpener	76	89.1
Stays pivoted	24	267
Tool clamp for abrading	51	218R+
Trimming stock for apparel	428	122+
Upholstery trim	428	123
Winding flat wire	72	135+
Wire fabric	245	10
Edgewise Sheet-metal Bender	72	411
Edible Foodstuffs	D 1	
Container holder, edible	D 1	
Education and Teaching	434	
Appliance design	D19	59+
Blocks & cards	434	403+
Cryptography	434	55+
Display panel, chart, or graph	434	430+
Erasable surfaces	434	408+
Keyboard operation	434	227+
Effervescent Tablets		
Medicine	424	43+
Egg		
Beater	366	343+
Breaker or cracker	99	568+
Candling	356	52+
Testing instrument	D10	48
Carton		
Design	D 9	341
Making	493	52+
Paper, compartmented box	206	521.1+
X-art collection	493	913*
Paperboard	206	521.1+
Wooden	217	18+
Cleaning	134	
Brushing or scrubbing	15	3.1+
By abrading	51	16+
Compositions and processes	426	614+
Cooker		
Automatic control	99	336
Boiler	99	403+
Supports combined	99	440
Cup	211	14
Cutting and separating		
Apparatus	99	498
Processes	426	299+
Dyeing	426	252
Incubator	119	35+
Brooder combined	119	30
Nest medicated	119	46
Packaging wrapping and casing	426	298
Powdered	426	614
Preservation	426	298+
Apparatus	99	467+
Coating	426	289+
Dehydration	426	471+
Hermetic sealing	426	298+
Packing in liquids and powders	426	392+
Refrigeration	426	524
Racks	211	14+
Separators	99	497
Shaker-mixer	D 7	300.1
Sorting	209	510+
Tester	73	432.1
Candling	356	52+
Electrical	324	
Specific gravity	73	32R
Treatment	426	614
Turner	99	644
Implement	294	7+
Incubator tray type	119	44
Ejecting or Ejector		
Article dispensing magazine with	221	208+
Stacked card or sheet	312	50+
Bale	100	218
Bobbin and cop winding with	242	41
Boiler blowoff	122	384
Car ventilation with	98	9
Outlet	98	20
Conveyor bucket discharging	198	703+
Cowl ventilator outlet	98	78+
Windvane	98	70
Cutlery combined with material	30	128
Embalming	27	24.1
Envelope machine with	493	268
Firearms	42	25
Upward tilting breech	42	47+
Fluid sprayer with collapsible holder	239	328
Furnace smoke box spark	110	127
Grain binder with	56	449
Ingot strippers	164	405
Jet pump	417	151+
Mechanism for key	70	388
With key operating mechanism	70	414
Medicator gas	604	23+
Metal castings	164	344+
Molds with fluent hardening material forming	249	66.1+
Plastic forming	425	422
Plastic forming	425	436R+
Type casting	199	80+
Movable dispensing pockets with	222	216+
Parachute flare carrying	102	340
Phonograph record holder	312	15+
Plastic die expressing with	425	381.2
Pottery machines with	425	263+
Pottery machines with	425	459+
Power plant exhaust treatment	60	685+
Punch implement	30	368
Punch press	83	123+
Pyrotechnic device with article	102	357
Rocket	102	351
Receptacles		
Dispensing type	222	
Non refillable bottles	215	16
Pocket safes or ticket cases	221	208+
Receptacle filling charge	141	249
Saliva	433	91
Self unloading vehicles with	414	506
Sewing machine bobbin	112	180
Sheet cutting dies with blank	83	123+
Sheet cutting dies with blank	83	652+
Sheet metalware die shaping with	72	344+
Ship bilge discharge	114	184+
Special tools	29	700+
Stereotype casting device with	164	145
Tobacco smoking device with	131	182+
Type casting mechanisms integral line with	199	60+
Type setting machine with	276	12+
Elastic (See Spring)		
Band guns and projectors	124	17+
Electrical cord	174	69
Extension devices	267	69+
Fabric (See fabric)	428	230+
Bed bottom	5	186.1+
Fastener, elastometric	269	907*
Shoe upper	36	51
Stocking	2	239+
Knitted	66	178A+
Surgical	128	165+
Strand	57	200+
Core covering processes	57	3+
Covered core	57	225
Making by spinning twisting	57	3+
Elbow		
Bending	72	369
Conduit electric	174	81
Coupling pipe	285	179+
Electret	307	400
Gas separation	55	DIG. 39
Making	29	631.1
Static information storage	365	146
Telephone transmitter	381	173
Electric & Electricity		
Actuation of artificial body member	623	24+
Amplifiers	330	
Apparatus, demonstrating	434	379
Arc (See arc, electric)		
Bandaging	128	82.1
Batteries		
Battery & condenser charging & discharging	320	
Boxes for	429	96+
Electro chemical	429	
Thermo electric or photoelectric	136	
Bearings, magnetic supports	310	90.5
Bells	340	392+
Binding posts	439	
Terminal boards	439	709+
Blankets and pads	219	212
Block signaling systems for railways	246	20+
Board games	273	237+
Boiler	392	441+
Boiler	392	325+
Brake		
Electrically operated	188	158+
Frictionless	310	92+
Bridge networks	323	365
Wave filter	333	170
Cabinet combined with electrical features	312	223
Cable (See cable, electric)	174	
Composite cable molding	425	505
Connections or joints	174	
Forming tool	7	107+
Support	248	49+
Candelabrum	D26	24+
Capacitor devices	361	271+
Car propulsion systems	104	
Cell (See cell, electric)		
Chair, eg electrocution	128	377+
Cigar or cigarette lighter	219	260+
Circuit maker or breaker (See circuit; switch)	200	
Clock	368	76+
Clutches		
Electric motor and clutch control	192	
Electric operator	192	84PM
In automatic type	192	40
Torque transmitting frictionless	310	92+
Coating processes	427	58
Coaxial cable		
Electronic tube combined with	315	39
Transmission lines	333	243+
With fluid or vacuum	174	28+
Coil winding	242	7.7+
Method	242	7.3
Compositions		
Conductive or emissive	252	500+
Computer controlled, monitored item	364	480+
Computers & data processing systems	364	
Condensers (See condenser)	361	271+
Making	29	25.41+
Conductor (See conductor)		
Conduits and tubes	174	
Insulators	174	
Making or joining	156	47+
Running lengths	219	85.1+
Structure	174	
Transmission to moving object	191	1R
Transmission to vehicles	191	
Conduits & housing (See conduits)		
Housed switchboards	361	332+
Meter circuit protectors	361	364+
Outlet or junction box type	220	3.2+
Pipe joints	285	
Pipes	138	
Structure	174	
Connectors (See connection)	439	
Design	D13	133+
Winding implement	242	7.6
Winding machine	242	7.17+
Winding method	242	7.3
Wire nuts	174	87
Contact (See contact, electrical)		
Contact brush		
Making by plastic operation	264	104+
Making methods	29	826+
Motor or generator	310	248+
Moving arc lamp electrode	314	129
To moving object or vehicle	191	
Contact metal	75	
Composite	428	929*
Container for components in roll form	206	328+
Control of dispensers	222	52+
Interlocked with discharge guide or support	222	75
Controller (See control or controller, electric)		
Conversion systems	363	
Current conversion	363	13+

	Class	Subclass
Frequency conversion	363	157+
Phase conversion	363	148+
Cooking by current through food	99	358
Cooling produced by	62	3.1+
Cord		
Storing	191	12R+
Course control	244	175+
Current distribution	307	
Current producing apparatus, product, process	429	
Demagnetizers	361	267
Depilatories	606	43
Design	D13	
Air conditioning	D23	351+
Clocks	D10	1+
Fan	D23	370+
Heating	D23	314+
Lamps	D26	
Measuring testers	D10	75+
Medical xray	D24	2
Photo chemical etching	430	313+
Soldering iron	D 8	30
Diagnostics medical	128	630
Distribution	D13	
Distributor (See distributor, electric)		
Door or gate	49	59
Drill	30	500*
Electrical device making processes	29	592.1
Electrical power conversion systems	363	
Electrical systems & devices	361	
Electrocardiographs	128	697
Electrolytic device	361	500+
Batteries	136	
Chemistry, electrical & wave energy	204	
Electromagnetic operation	335	
Electronic tube (See electric space discharge devices)		
Electrothermally or thermally actuated switches	337	
Electrothermic metallurgical processes	75	10.1+
Elevators, electric control	187	100+
Engine starting motor systems	290	
Motor per se	310	
Equipment, design	D13	
Eye (See photoelectric)		
Fan	310	40.5
Guards	416	247R
With body motion	310	40.5
Fault isolating safety systems	361	1+
Fault location	324	512+
Fault testing	324	500+
Fence	256	10
Insulator	174	137R+
Filter (See filter, electric)		
Fire starting device	D 7	416+
Flashlight	362	208
Fluid heater	392	311+
Fluid motor system incorporating electrical system	60	911*
Furnace	373	
Fuses	337	142+
For explosives	102	
In arc lamp	314	10+
In lamp or electronic tube	315	74+
Gas & liquid contact apparatus	261	DIG. 8
Geiger muller counter	250	374+
Geiger muller counter	313	93
Generation	310	
In lamp or electronic tube	315	55
System	322	
Generator (See generators)	310	
Bicycle driven with lamp	362	193
Nonelectric prime mover driven	290	
System	322	
Generator control	322	44+
Polarity control	322	5+
Power transmitting mechanism control	322	40+
Generator systems	322	
Automatic control	322	11
Automatic control	322	17+
Excitation control	322	59+
Piezoelectric	322	2R
Gyroscopic compass	33	324+
Heating	219	
Distillation processes		
Paratary	203	
Thermolytic	201	19
Electrothermic metallurgy	75	10.1+
Ferrous metal local hardening	148	150
Ferrous metal treatment	148	154
Gas generator retort	48	103
Incubator type heater	236	3
Knife	30	140
Metal working with	29	DIG. 13
Static mold	249	78
Thawing pipes and freeze protection	138	33
Track sanders	291	20
High frequency medical	128	804+
Igniter with burner (See igniter)	431	258+
Ignition, internal combustion engine	123	143R+
Impulse generator		
Condenser discharge	320	1
Dynamoelectric	310	10+
Electromagnetic periodic switch	335	87+
Electronic tube system	328	59+
Gas tube relaxation generator	331	129
Nondynamoelectric	310	300
Periodic switch	200	19R+
Radar system	342	175+
Relaxation oscillation generator	331	143
Signal transmitters	341	173+
Supplied to lamp or electronic tube	315	289
Telegraph system	178	
Telephone call transmitters	379	
Transistor relaxation generator	331	111
Inductor devices	336	
Insulation, electrical	493	949*
Insulator	D13	129+
Interrupter (See interrupter)		
Ionization chamber	313	93
For nuclear fusion reaction	376	100
System	250	335
Junction box	D13	152
Key (See key, electric)		
Lamp (See lamps, electric)	313	
Consumable electrode arc lamp	314	
Display systems, matrix	340	780
Display systems, monogram	340	760+
Flash lights	362	208+
Heaters using	219	552+
Lamp systems	315	
Making	445	
Making glassworking machine	65	152+
Making glassworking processes	65	36+
Making miscellaneous	445	
Repair apparatus	445	61
Repair methods	445	2
Signs, multiple function	40	553+
Lead frame stock	428	572
Line (See line, electric)		
Liquid purifier insulating or discharging	210	243
Magnetic surgery	600	9+
Magnetically operated switches, magnets, & electromagnets	335	
Massage	128	24.1+
Mattress, flexible heater element	219	549
Measuring & testing	324	
Instruments, design	D10	46+
Medical and surgical treatment	128	362+
Medicators	604	20+
Melting furnace	373	
Glass	373	27
Meter (See meter, electric)	324	76R+
Coin controlled	194	
Recording	346	
Miscellaneous	361	
Miscellaneous electron space discharge device systems	328	
Miscellaneous non-linear reactor systems	307	401+
Miscellaneous non-linear solid solid device circuits	307	200.1
Motive power (See motor, electric)	310	
Aircraft control actuator	244	175+
Arc electrode actuator	314	69+
Arc electrode actuator	314	94+
Automatic miscellaneous	318	445+
Generating electric locomotives	105	35+
Induction motors	310	166+
Induction motors systems	318	727+
Interchangeably locked gearing operator	74	365
Ironing or smoothing machine	38	38+
Lock operating mechanism	70	277+
Locomotives	105	49+
Motor acceleration	388	842+
Motor braking	318	362+
Motor making processes	29	596+
Motor reversing	318	280+
Motor vehicle	180	65.1+
Piezoelectric	310	311+
Planetary gearing combined	475	149+
Plural motor control	318	255+
Plural motors	318	34+
Potentiometer controller	D13	125
Reciprocating motor systems	318	119+
Speed control	388	800+
Steering gear operator	180	79.1
Synchronous motor systems	318	700+
Systems	318	
Textile twisting apparatus	57	100
Time controlled locks	70	271
Toy machinery	446	
Toys	446	484
Vehicle	446	457
Vehicle	D13	112+
Motor generators	310	113
System	322	
Motors alternating current	310	159+
Music instrument	84	600+
Nail hammers	227	131
Needle	606	44
Oil well tubing dewaxer	392	301+
Organ (See organ, electric)	84	600+
Orthopedics	128	68.1
Oscillators	331	
Outlet box support	248	906*
Oven	219	391+
Packaging for components in roll form	206	328+
Pencil sharpener	144	28.1+
Phase control systems	323	212
Photography, electric	430	31+
Plant culture	47	1.3
Plasma control	376	143
Plug (See plug, electric)		
Power conversion systems	363	
Power supply or regulation systems	323	
Inrush current limiters	323	908*
Lamp dimmer structure	323	905*
Medical electronics	323	911*
Optical coupling to semiconductor	323	902*
Precipitators	323	903*
Remote sensing	323	909*
Solar cell systems	323	906*
Starting circuits	323	901*
Temperature compensation of semiconductor	323	907*
Touch systems	323	904*
Two of three phases regulated	323	910*
Precipitator	55	101+
Distillation processes &	201	19
Distillation processes &	201	40
Processes	55	2
Preserving, disinfecting, sterilizing methods	422	22+
Food or beverage	426	237
Apparatus	99	451
Fumigator with electric fan	422	124
Prime-mover dynamo plants	290	
Printed circuits	361	380+
Prod	231	7
Production	D13	
Protection (See protection, electric)		
Public utility meter	D10	100
Radio tube (See electric space discharge devices)		
Radioactive surgery	600	1+
Rail bonds	238	14.1+
Recorder	346	
Electrochemical	346	165
Lock indicator	70	434
Photographic oscillograph	346	109
Spark perforating	346	163
Rectifier		
Electrolytic	361	436+
Electronic tube type structure	313	
Supplying electronic tube or lamp	315	200R+
Supplying radio	328	262+
Systems	363	13+
Relay (See relay, electric)		
Resistor devices (See resistance)	338	
Rivet heaters	219	157
Safety devices (See safety devices)		
Score boards	235	18
Timing type	340	309.15
Shock apparatus (See shocker)		

	Class	Subclass
Cattle goad	231	7
Electric chair	128	377+
Fences	256	10
Hazard prevention systems	307	326+
Initiating	272	27R
Patient protection from shock	128	908*
Preventing shock	174	5R
Preventing shock	361	212+
Surgical	128	362+
Therapeutic application	128	783+
Trawl net fish control	43	9.6
Signaling, electric (See signal)	340	
Noise suppression in signal	128	901*
Radio	455	
Railway	246	
Telegraph	178	
Telephone	379	
Television transmission	358	141+
Vehicle mounted	340	425.5+
Socket (See socket, electric)		
Soldering	219	129
Iron	219	245+
Iron design	D 8	30
With pressure	219	85.1
Solid state barrier layer device structure	357	
Space discharge device (See radio; space discharge device; television)		
Spark perforating	219	384
Recorder	346	163
Steering motor system	318	
Sterilizing and pasteurizing		
Apparatus	99	451
Methods	426	237+
Stove	219	392+
Super conductor metal	75	
Composite	428	930*
Surgical instruments	606	32+
Surgical receptors	604	20+
Switches (See switch, electric)	200	
Magnetically operated	335	
Mechanically actuated, general	200	
Pencil sharpener pencil actuated	144	28.5
Thermally actuated	337	
Synthetic resin or natural rubber formation	521	915
Teaching	434	301
Terminals (See terminals, electric)		
Tester	324	
Testing devices (See testing)	324	
Nonelectric test	73	
Radiant energy using	250	
X ray using	378	
Time interval measurements	368	114+
Electrical	324	160+
Toothbrush	D 4	101
Toys	446	484+
Telephones	446	142
Train dispatching systems	246	2R+
Transformation	D13	
Transformers	336	
Transistors	357	
Transmission or interconnection systems (See transmission)	307	
Transmission to vehicles or moving object	191	
Elevators	187	100+
Moving arc lamp	314	129
Tube (See tube, electric)		
Tuners	334	
Valve (See electric space discharge devices)		
Valve actuation	261	DIG. 74
Vehicle		
Locomotive	105	49+
Locomotive generating electric	105	35+
Motor vehicle	180	65.1+
Vibrator		
Electric switch	335	87+
Massage	128	32+
Rectifying system	363	110+
Voltage magnitude control systems	323	
Current regulation	323	
Electronic tube with	323	291
Impedance systems	323	293
Saturable reactor	323	249
Tap changing	323	255
Transformer systems	323	247
Wheatstone bridge	323	293
Wall plug, outlet	439	
Design	D13	138+
Watches	D10	30+
Wave analysis	324	77R
Wave guide	333	239+
In cathode ray tube	315	3+
In electronic tube	315	39+
Wave resonator	333	219+
In cathode ray tube	315	4+
In electronic tube	315	39.51+
Wave transmission lines & networks	333	
Weighing scales	177	210R+
Welding apparatus	D15	144
Whistles	340	406
Wire (See wire, electric)		
Wire nuts	174	87
Wireless power transmission to a radio receiver	455	343
Motors having	318	16
Vehicles having	191	10
Wiring systems	307	
Electric Control Systems		
Alarm signal	340	500+
Annunciators	340	815.1
Antihunting		
Generator systems	322	19
Motor systems	318	448
Motor systems synchronous	318	702
Battery condition responsive	320	43+
Coded record sensors	235	433+
Computer controlled, monitored	364	480+
Current responsive		
Battery charging systems	320	39+
Electronic tube voltage magnitude control systems	323	291+
Generator systems	322	23+
Generator systems	322	27
Impedance voltage magnitude control systems	323	293
Motor systems	318	474+
Motor systems	318	478
Motor systems acceleration	388	847
Motor systems braking	318	367
Motor systems speed control	388	823
Motor systems synchronous	318	714
Field winding circuits	318	717
Motor systems ward leonard	318	144
Voltage magnitude control systems	323	
Direction responsive	340	
Motor systems	318	489
Display systems	340	789+
Electric sign, matrix	340	780
Electric sign, monogram	340	760+
Error detector/corrector	371	
Fluid level responsive		
Alarm signal	340	618+
Motor systems	318	481
Fluid pressure responsive		
Alarm signal	340	626+
Battery charging systems	320	46
Generator systems	322	35
Motor systems	388	929
Motor systems	318	481
Moisture responsive		
Motor systems	318	483
Motion picture change over	352	135
Multiplexing	370	
Musical instrument	84	
Ordance control data	235	400+
Position or movement responsive		
Motor systems	318	265+
Motor systems	318	466+
Motor systems braking	318	369
Motor systems follow up	318	560+
Motor systems reciprocating	318	127
Motor systems reversing	318	282
Motor systems reversing	318	286
Motor systems synchronous	318	715
Armature winding circuits	318	721
Field winding circuits	318	719
Positional servo systems	318	560+
Robot	318	568.11+
Power factor or phase responsive		
Generator systems	322	20+
Motor systems	318	437+
Motor systems	318	438+
Motor systems induction	318	729
Motor systems synchronous	318	700+
Motor systems synchronous	318	700+
Phase control systems	323	205
Power or load responsive		
Battery charging systems	320	31+
Generator systems	322	24+
Motor systems	318	474+
Motor systems acceleration	388	844+
Motor systems braking	318	366
Motor systems constant load	318	432+
Motor systems during starting	318	430+
Motor systems load limitation	318	434
Motor systems plural motors	318	98+
Motor systems speed control	388	930+
Motor systems synchronous	318	700+
Motor systems ward leonard	318	141+
Public address	381	82+
Radiant energy responsive		
Electronic voltage magnitude control systems	323	
For nuclear reactor	376	215
Generator systems	322	26
Heat responsive test	374	32
Motor systems	318	480
Photoelectric circuits	250	200+
Special ray circuits	250	336.1
Rate of change responsive		
Electronic tube voltage magnitude control systems	323	
Generator systems	322	19+
Motor systems	318	456+
Robot	318	568.11+
Signal	340	
Alarm	340	500+
Thermal control	340	584+
Vehicle mounted	340	425.5+
Sound or mechanical vibration responsive motor systems	318	128
Speed responsive		
Battery charging systems	320	41
Generator systems	322	29+
Motor systems	318	461+
Motor systems braking	318	369
Motor systems dynamic braking	318	379
Motor systems induction primary circuit	318	799+
Motor systems plural motors	318	59+
Motor systems plural motors	318	66+
Motor systems speed control	318	257+
Motor systems speed control	318	268+
Motor systems speed control	388	800+
Motor systems synchronous	318	715
Armature winding circuits	318	721
Field winding circuits	318	719
Motor systems ward leonard	318	146
Motor systems ward leonard	318	147
Synchronization	375	107+
Telegraph systems	178	
Telephone	379	
Television	358	93+
Thermally responsive		
Alarm	340	584+
Battery charging systems	320	35+
Electric heater systems	219	482+
Generator systems	322	33+
Impedance voltage magnitude control systems	323	294
Motor systems	318	471+
Motor systems acceleration	388	934
Motor systems speed control	388	934
Signal system	340	584+
Time or time delay responsive		
Battery charging systems	320	31+
Battery charging systems	320	37+
Generator systems	322	18
Motor systems	318	364
Motor systems	318	447
Motor systems	318	452+
Motor systems	318	484+
Motor systems acceleration	388	858
Motor systems braking	388	921+
Motor systems induction starting	318	727+
	318	778+
Motor systems reversing	318	283+
Motor systems synchronous	318	700+
Motor systems ward leonard	318	141+
Voltage responsive		
Battery charging systems	320	32+
Battery charging systems	320	39+
Generator systems	322	24+
Generator systems	322	28
Motor systems	318	479
Motor systems acceleration	388	847
Motor systems braking	318	368
Motor systems induction, primary circuit	318	805

	Class	Subclass
Motor systems speed control	388	822
Motor systems synchronous	318	712+
Armature winding circuits	318	720
Field winding induced voltage	318	718
Motor systems terminal voltage	318	459
Motor systems ward leonard	318	145
Phase control systems	323	212
Voltage magnitude control	323	234
Electric Toothbrush	D 4	101
Electricians Tools	D 8	
Electrifying Fluid	361	225+
Electrocardiograph	128	697
Electrochemistry	204	
Electrocoating	204	14.1+
By cathode sputtering	204	192.1+
By electrophoreses or electro osmosis	204	180.2+
Electroculture	47	1.3
Electrocution		
Chair	128	377+
Trap	43	98+
Insect	43	112
Electrode		
Anode making	445	46+
With assembly	445	35+
Arc furnace	373	98+
Arc lamp	314	
Composition	252	500+
Structure	313	357
Battery, electro chemical	429	209+
Battery, thermo or photoelectric	136	
Brush and holder	310	239+
Brushes	310	248+
Carbon		
Composition for	252	502+
Cored	313	354
Joint and connection digest	403	DIG. 5
Structure	313	326+
Carbon saver	313	335
Cathode making	445	46+
Wire shaping	140	71.5+
With assembly	455	35
Coating	427	58+
Collector rings dynamoelectric	310	232
Collector transmission to vehicle	191	45R+
Commutators dynamoelectric	310	233+
Condenser	361	271+
Cooking apparatus	99	358
Electrical connector for	439	
Chuck or socket	279	
Clasp	403	344
Carbon electrode	403	DIG. 5
Interfitted members	403	345
Mechanical rod joint	403	
Electrical precipitator	55	101+
Processes	55	2+
Electroanalysis	128	635
Electrolytic chemical apparatus	204	193+
Composition	204	291+
Liquid electrode	204	219+
Structure	204	280+
Supports	204	297R+
Electrolytic condenser	361	500+
Electrolytic rectifier	361	436+
Electronic tube	313	326+
Electronic tube element	313	326
Electrophoretic or electro osmotic	204	299+
Electrophotographic charging	355	219+
Electrophotographic development	355	227+
Electrophotographic development	355	261+
Electrothermic processes	75	10.1+
Consumable metal electrode	75	10.23+
Filament making (See cathode)		
Food treating apparatus	99	451
Formed as inductive impedance electronic tube	315	40
Grid making	445	35+
Wireworking	140	71.5
Heating fluid in circuit	392	311+
Holders	219	138+
Arc furnace	373	94+
Arc lamp	403	
Arc lamp	314	
Igniter internal combustion engine	123	146.5 R
Igniters	361	247+
With burner	431	264
Immersible electrode in liquid level gauge	73	304R
Ion sensitive	204	416+
Lamp	313	326+
Arc composition	252	500+
Arc consumption feed type	314	60
Arc structure	313	357
Filament composition	252	500+
Filament form	313	341+
Gas or vapor	313	326+
Making	445	
Lightning arresters	361	117+
Magnetic chemical apparatus	422	186.1+
Making	29	592.1
Battery grid filling	141	32+
Battery grid of metal	29	2
Coating electron emissive	427	77+
Condenser electrode	29	25.41+
Extruding plastic coating apparatus	425	113+
Filament wireworking	140	71.5
Plastic operation filament		
Plastic operation method	264	104+
Medical diagnostic	128	639+
Mercury cathode arc lamp	313	328
Mercury cathode tubes	313	328+
Mercury vapor lamps	313	326+
Metal for arc lamps	313	328
Metal heating	219	119+
Arc	219	145.1+
Work holders	219	138+
Microphone	381	168+
Nernst glower	313	326+
Composition	252	500+
Ozonizers	422	186.7+
Perforating recording spark	346	163
Pressure or vacuum furnace	373	60+
Arc furnace with internal atmosphere control	373	68
Arc furnace with internal atmosphere control	373	77
Radio tube element	313	326+
Selectively permeable membrane	204	415
Self baked furnace	373	60+
Self-baking	373	89
Soderberg electrode	373	97
Separation or purifying of liquid	204	302+
Electrolytic apparatus	204	225+
Spark plug	123	169EL
Sterilizer or pasteurizer	426	237+
Storage batteries	429	209+
Making	29	623.1+
Paste mixtures	429	149+
Surgical	128	
Guide means	606	129
High frequency therapy	128	804+
High frequency therapy	600	13+
Instruments	606	32+
Tip cleaner for	314	23
Welding	219	145.1+
Electrodeposition	204	
Laminating combined	156	150+
Electrodynamometers	324	144+
Electromagnetic brake	310	92+
Electroencephalograph	128	731
Electroetching	204	129.1+
Electroforming		
Molds or strip plates	204	281
Processes	204	3+
Electroliers	362	405+
Electroluminescent		
Stock material	428	917*
Type face design	D18	26
Electrolysis	204	1.11+
Electrolytes	204	
Battery	429	188+
Circulation	429	51
Condenser or rectifier	252	62.2
Conductivity tester	324	438+
Drain	429	95
Feeding control	429	63
Fuel cell		
Solid	429	30+
Moveable means	429	70
Non movable means	429	81
Two-fluid	429	101
Electrolytic		
Analogue computer	235	61R
Apparatus and method	204	
Bleaching	204	133
Circuit controller	361	435+
Cleaning processes	204	141.5+
Condenser or rectifier	361	500+
Electrolyte	252	62.2
Manufacture	29	25.1+
Electrodeposition	204	14.1+
Alloys	204	43.1+
Multiple layers	204	40+
Meters	324	94
Methods of producing specific chemical compounds	204	59R+
Recorder	346	165
Synthesis	204	59R+
Tank for determining equipotential lines	235	61R
Electromagnet (See Magnet)	335	209+
Armature and	335	220+
Brake	310	93
Brake operator and brake	188	161+
Chemical apparatus	422	186.1+
Object protection	422	186.2
Clutch	310	92+
Control for consumable electrode	314	
Deflecting arc in lamp	313	153+
Electric switch	335	2+
Handling implements	294	65.5
Liquid separation or purification	210	222+
Process	210	695+
Making methods	29	602.1
Moving consumable electrode	314	
Pickup for musical instrument	84	725
Relay systems	361	160+
Relay systems switching	361	160+
Surgical	600	9+
Switching systems using	361	160+
Systems of supply to	361	160+
Torque device	310	92+
Tuner operated by	334	17+
Electromagnetic Energy		
Used in reaction to prepare inorganic or organic material	204	157.15+
Used in reaction to prepare or treat synthetic resin or natural rubber	522	1+
Electromagnetic Flowmeter		
Chemical analysis, apparatus	422	82.1
Electrometallurgy	75	10.1+
Electrometers	324	76R+
Chemical analysis, apparatus	422	82.1
Electrostatic	324	109
With amplifier	324	123R
Electron (See Electric; Space Discharge Device)		
Apparatus for treating with	250	492.1
Beam	430	942*
Beam heat	156	DIG. 102
Beam tube amplifier systems	330	44+
Counter	250	472.1
Electron spin resonance testing	436	173*
Emissive coating	427	77+
Microscope	250	311
Multipliers		
Amplifier systems	330	42
Photomultipliers	313	523+
Systems	328	243
Tube structure	313	103R+
Optics		
Tube structure	313	441+
Ray tube	313	107.5
Tube	D13	180
Twin indicator	313	107.5
With current connections	315	382.1
Space discharge device systems, misc	328	
Electronic & Electronics (See Electric, Radio, Television, Wave Energy)		
Compositing system	358	22
Computer controlled, monitored item	364	480+
Cooker	99	358
Heating	219	10.55 R
Inductive apparatus	219	6.5+
Inductive methods	219	10.41+
Music instrument	84	600+
Organs	84	600+
Piano tuning	84	454
Receiving tubes	313	
Switch	328	76+
Voltage regulation	323	
Electronic Still Camera	358	909
Scanned semiconductor matrix	358	213.11+
Electronic Tube (See Electric Space Discharge Device)		
Acorn type	313	
Battery type	313	
Bias supply	328	226
Gas tube system	315	
Power packs	307	150
Rectifier system	363	117+

	Class	Subclass
Voltage divider	307	15
Voltage regulation	363	117+
With voltage regulation	363	111+
Interelectrode capacitance testing	324	409+
Metal type	313	248
Metal envelope as electrode	313	246+
Miniature	313	
Mixer	313	300
Pencil type	313	
Ruggedized	313	
Subminiature type	313	
Electrooptical		
Batteries	136	243+
Cathode ray tube system	315	1+
Cathode ray tubes	313	441+
Diagnostic lamps	128	23
Display signs and systems	340	810
Illuminated signs	40	541+
Lamps	313	
Light sensitive circuits	250	206+
Electric lamp control	315	149+
Musical instrument	84	639+
Photocell		
Battery type	136	243+
Electronic tube type	313	523+
Phosphor screen	313	525+
Resistance type	338	15+
System discharge device control	315	149+
Systems	250	200+
Photographic telegraph recorder	178	15
Code recorder receiver	178	90
Photometers	356	218+
Recorders		
Electrochemical	346	165
Photographic	346	107R+
Radiant energy	365	106+
Recording or reproducing sound	369	100+
Signalling	455	600+
Sound recording and reproducing	369	100+
Surgical and medical	128	362+
Television	358	209+
Ultraviolet application	250	365+
X ray tubes	378	121
Electroosmosis or Electrophoresis		
Apparatus	204	299R+
Immunoelectrophoresis	436	516*
Processes	204	180.1+
Electrophotography Apparatus	355	200+
Chemical processes and materials	430	31+
Electroplating		
Apparatus	204	194+
Metal working with	29	DIG. 12
Processes	204	14.1+
Electropneumatic Action in Organs		
Automatic	84	88
Pipe organs	84	338
Swells	84	347
Electropolishing	204	129.1+
Electroprinting	204	2
Electroscopes	324	109
Radiation measuring type	250	390.1+
Electrostatic (See Separator, Solids)		
Assembly apparatus or process	29	900*
Coating	118	620+
Control	118	671
Gas separator	55	101+
Processes	55	2+
Induction generators	310	309+
Measuring and testing	324	327
Printing using	101	DIG. 37
Spraying	239	690+
Electrosynthesis	204	59R+
Electrotherapeutic		
Apparatus	128	362
Electrothermic Processes, Metallurgy	75	10.1+
Consumable metal electrode	75	10.23
Electrical induction	75	10.14
Gaseous treating agent	75	10.39
Plasma	75	10.19
Solid treating agent	75	10.39
Volatilization of metal	75	10.29
Electrotype		
Manufacture of	204	6
Elevator (See Lifters)	187	
Aircraft control	244	75R+
Amusement	272	6+
Automobile lift or hoist	269	58+
Bucket	198	701+
Butchering	17	24
Caster leg	16	32+
Catch devices	187	73+
Design	D34	28+
Door	187	51+
Control	187	108+
Drying apparatus	34	189+
Sheet	34	149
Electric control	187	100+
Electric motive power	187	112+
Extensible fire escape type	182	63
Fish	405	82
Floating dry dock	114	48
Grain storage type	52	245+
With material port	52	192+
Guiding device	187	95
Hanging door wheel mounts	16	99
Hatch mechanism	187	62+
Lighting on steps	362	76
Material handling	414	592+
Mortar mixer combined	366	26
Platform type scaffold	182	141+
Power driven conveyor type	198	
Railway	104	127+
Refrigerated article	62	378
Process	62	63
Refrigerator ice	62	379
Screw	198	657+
Self loading vehicle	414	486+
Shaft closure operators	49	68
Signal or call unit	D10	108
Skeleton towers metallic	52	111+
With platforms	182	141+
Spiral	198	778+
Store service type	186	22+
Ellagic Acid	549	278
Ellipsograph	33	30.1+
Flexible cord type	33	30.5
Pattern follower type	33	30.3
Pivoted circular pattern type	33	30.2
Elongated-member-driving Apparatus	227	
Embalming	27	21.1+
Compositions	424	75
Embalming equipment or apparatus	D24	6
Emblem or Badge (See Medal)	D11	95+
Embossing (See Impressing; Indenting)	101	3.1+
Embossing implement	D18	15+
Laminating fabrics with	156	219+
Plastics	264	293
Tobacco plugs	131	111+
Typewriting machines	400	127+
Woodworking methods	144	358
Embrittlement Test	73	86
Embroidering		
Sewing machine	112	78+
Presser device feature	112	236
Embroidery	112	439
Design	D 5	
Hoops	38	102.2
Machinery	D15	66+
Packages	206	49
Processes	112	266.1
Trimmer cutter	83	910*
Embryotome	606	126
Emergency		
Closure release	49	141
Draft coupling janney type	213	111+
Elevator cables	187	71
Exit door securer with lock	70	92
Gear for aircraft water landing	244	107
Kits, eg flare, first aid, survival packs	206	803*
Lock release	70	465
Operating means for closure bolt	292	92+
Multiple bolt	292	21
Railway car exits	105	348+
Release for clockwork lock operating mechanism	70	274
Resilient tires	152	152
Signal stations railway train dispatching	246	13
Uncoupling device for janney type coupling	213	160
Emergency Power Sources, Electric		
AC DC converter	328	258+
Battery		
Dry	429	163+
Storage	429	149+
Dynamotor	310	113
Electric motor	318	17
Generator	310	
Generator system, portable	322	1
With prime mover	290	
Lighting systems	315	86
Flashlights	362	208
Generator motor	363	
Portable	315	33
Self-powered lamps	362	157
Emery	51	309
Wheels	51	206R+
Disc	51	209R+
Emetine	546	96
Emissivity		
Compensated radiation thermometer	374	128
Measurement	374	9
Empennage	244	87+
Emptying (See Discharging)		
Emulsifying	252	302+
Agitation	366	
Emulsion	252	302+
Biocidal	514	937*
Bituminous	252	311.5
Bituminous coating	106	277
Breaking		
Agents for	252	358
Mineral oil chemical treatment	208	188
Combined	208	188
Processes	252	319+
Cellulose ether or ester	106	170
Fuel	44	301+
Photographic	430	495+
Synthetic resin or natural rubber (See class 523, 524)		
Enamel	501	14+
Opacifiers for	106	312
Enameling	427	
Metal working with	29	DIG. 14
Encapsulation of Material		
Gaseous core	521	76
Liquid core	264	4
Using emulsion or dispersion process	264	4.1
Solid core	427	213.3
Encoder Communicating Switch-type	318	602
End		
Gate	160	
Ship dry dock	114	47
Vehicle body	296	50+
Matching woodworking	144	91
Sleeves for electric conductors	174	93
End Effector	901	30+
Endless Belt Conveyor (See Conveyor, Endless)		
Endodontic Apparatus	433	81
Method or material for testing treating, restoring, removing natural teeth	433	224
Endoradiosonde	128	631
Endoscope		
Diagnostic specula	128	4
Surgical cutter	606	45
Endosmosis	210	649+
Gas separating process	55	2+
Enema, Receptacle for Syringe	206	364
Energy Accumulating Means, Motor Vehicle	180	165
Engine (See Motor)		
Air steam	60	39.181+
Ammonia	60	509+
Externally applied heat with	60	644.1
Boring cylinder	408	709
Carbonic acid	60	509+
Compound		
Fluid pressure and turbine	60	698+
Internal combustion engine and	60	597+
Combustion products	60	39.1+
Fluid pressure	60	597+
Turbine	60	598+
Motive fluid reheater between	60	679+
Motors in series	60	715+
Multiple expansion chambers	91	152+
Plural pneumatic	60	407+
Compressed air	91	
Demonstrating and teaching	434	389
Dental	433	103+
Design	D15	1+
Ether	60	509+
Expansible chamber	91	
One shot explosion actuated	60	632+
External combustion	60	39.6+
Fire	169	24
Fire escape	182	63+
Gas air	60	39.19+
Gunpowder	123	24R
Hand crank starter	74	550+

	Class	Subclass
Heat exchanging	165	51+
Hot air	60	508+
Expansion of medium	60	516+
Externally applied heat	60	643+
Internal combustion engine	123	
Cooling	123	41.1
Design	D15	1+
Excess air to assist exhaust	60	900*
Exhaust treatment of rotaries	60	901*
Lubricators	123	196R
Nozzle	239	584+
Oil by-pass heat exchange	165	35
Pump drive	417	364
Refrigeration utilizing	62	323.1
Rotary piston	123	200+
Rotary reactor, separator or treater of exhaust	60	902*
Speed responsive throttle control	60	906*
Temperature measurement	374	144+
Locomotive	105	26.5+
Microwave	60	203.1
Muffler for hobby craft engine	181	404*
Plural motors system	60	698+
Power plant	60	
Prime mover dynamo plant	290	
Pulp refining	241	
Reaction motor	60	200.1+
Signal systems ships	116	21
Solar	60	641.8+
Starter gearing	74	6+
Steam	91	
Design	D15	2
Steam traction	180	36+
Strap starter	74	139+
Testing	73	116+
Toy	446	
Valve gear (See valve, actuation)		
Washing machine system	60	908*
Engineering Hydraulic and Earth	405	
Engraving		
Equipment design	D18	13
Photographic process	430	269+
Plate cutting	409	79+
Printing	101	150+
Stippling	72	76
Tools	30	164.9
Enlargers Photographic	355	18+
Ensilage Compaction	100	65+
Enteric Coating of Medicinal Tablets	424	475+
Entrenching Earthworking Apparatus	105	161
Envelope (See Bulb; Casing)		
Battery plate separator	429	136+
Closures	229	76+
Cutting blank form	83	911*
Feeding or delivering	271	2
Making	493	186+
Sealing and stamping combined	156	442
Tear strip opener	493	923*
Window	493	919*
X-art collection	493	917*
Manifolding		
Leaf combined	282	25
Strip connected	282	11.5 R
Moistening and sealing	156	441.5+
Opener	83	912*
Design	D 8	102+
Paper	229	68R+
Design	D19	3+
Environmental Impact or Decreasing Pollution	422	900*
Survival computerized, monitored	364	413.3+
Enzyme	435	183
Enzyme or microbe electrode	435	817+
Fruit juice treatment	426	51
Medicinal compositions	424	94.1+
Separation or purification	435	814*
By sorption	435	815*
Ignition, internal combustion	435	816*
Tobacco treatment	131	308
Epaulet	2	246
Badge type	40	1.5+
Epdm (See Synthetic Resin or Natural Rubber)		
Ephedrine	564	364
In drug	514	653
Epicycle		
Land vehicle occupant propelled	280	207
Railway		
Drive wheel	105	100
Wheel	295	3
Epicyclic Gearing	475	
Episcope	353	65
Episcotister		
Light valve	350	484+
Photometer	356	217
Epon T M (See Synthetic Resin or Natural Rubber)	528	87+
Epoxide Resin (See Synthetic Resin or Natural Rubber)		
Epoxy Compounds	549	512+
Equalized and Equalizing		
Animal draft	278	3+
Horses abreast	278	5+
Animal powered sweep	185	22
Bed bottom	5	278
Brake position adjusters	188	204R
Dumping vehicle hopper door closing	298	37
Extension table	108	87
Hot air furnace	126	105R
Locomotive	105	82
Railway brake series	188	46
Railway motor torque	105	135
Railway truck	105	209
Bogie	105	194
Sectional cabinet closure	312	110
Serial valves dependent motion	137	613+
Direct response	137	512+
Stop	137	629+
Trolleys for single rail suspended car	105	152
Vehicle fender car and truck	293	14
Vehicle running gear frame	280	104
Equatorial Telescope	350	568
Equilin	552	625
Eraser	15	424+
Abradant type mutilating	51	
Blackboard	15	208+
Blade type	30	
Design	D19	53+
Disintegrable type	15	424+
Brush combined	15	105.52
Cutter e. g., pencil sharpener combined	15	105.53
Mechanical	15	3.53
Ruler combined	15	105.51
Sharpener pencil combined	15	105.53
Mutilating type and burnisher	7	124+
Scraper type mutilating	30	169+
Shield	51	262.1
Typewriter attachment	400	695+
Ergolines	546	67+
Ergomater with Feedback	272	DIG. 6
Ergosterol	552	547+
Ergot Alkaloids	546	67+
Erosion Preventing	405	15+
Mineral oil conversion combined	208	47
Error		
Checking, electrical	371	
Arithmetic operations	364	737+
Communications synchronization	371	47.1
By error rate or count	371	5.4
Computers	371	16.1+
Data processing systems, general	364	200
Memory devices	371	21.1+
Program debugging	371	19
Correcting circuit	371	30+
Correcting storage on typewriter	400	6
Detecting	371	
Positional servo systems	318	638
Prevention means on communication keyboards	341	24+
Erysodine	546	72
Erysonine	546	72
Erysothiopine	546	72
Erysothiovine	546	72
Erysotrine	546	72
Erysovine	546	72
Erythraline	546	48
Erythramine	546	48
Erythratine	546	48
Erythritol	568	853+
Erythreidine	546	66
Erythromycin	536	7.2+
Escalator	198	321+
Design	D34	30
Escape		
Acetylene generator automatic safety	48	56
Fire	182	
Endless conveyor	182	42+
Single strand stile or pole	182	189+
Tower or chute	182	48+
Gas holder high pressure safety	48	175
Submarine	114	323+
Escapement		
Clock and watch structure	368	124+
Clock electric driving type	368	131
Electrode feed	314	82
Gong striker	116	161+
Meter electric	324	139
Motor	74	1.5
Motor composite with	185	5
Motor spring with	185	38
Motor weight with	185	31
Music leaf turner	84	498+
Type casting machine	199	23
Typewriter feed mechanism	400	319+
Typewriter line locks	400	672+
Escutcheon	D 8	350+
Bushings or lining thimbles	16	2+
Covers or face plates	220	241
Design	D 8	350+
Electrical apparatus	174	66+
Fluorescent or phosphorescent apparatus	250	466.1
Design	D 8	
Door knob handle or rose plate	292	357
Fluid handling	137	377+
Key operated lock	70	452
Pipe joint	285	46
Radio plate for	D14	257
Television, plate for	D14	239
Wall outlet with	D13	137+
Espalier	D25	100
Esr, Electron Spin Resonance	436	173*
Essential Oil	512	5
Biocides containing	424	195.1+
Esters	260	
Carboxylic acid	560	1+
Hydrophenanthrene nucleus containing	560	5+
Cellulose	536	58+
Nitrogen containing	536	30+
Higher fatty acid	260	410+
Resin acid	530	200+
Free acid	560	5+
Rosin acids	530	215+
Starch	536	107+
Nitrogen containing	536	48+
Sulfate	558	20+
Tall oil acids	530	232
Thiocyanic acid	558	10+
Estradiol	552	625
Estradiol, in Drug	514	182
Estrenes	552	642+
Estriol	552	617
Estrone	552	625
Estrous Cycle Monitoring	128	738
Etching	156	625+
Apparatus	134	
Bright polishing	156	903*
Composition	252	79.1+
Differential apparatus	156	345
Direction indicator combined	33	305+
Electrolytic	204	129.1+
Electrolytic coating combined	204	32.1+
Glass	156	663
Glass with glass working	65	31
Metal working with	29	DIG. 16
Misc. chemical manufacture	156	DIG. 111
Photo	430	299+
Multicolor printing surface	430	301
Printing plate making	156	905*
Resist compositions	156	904*
Semiconductor making	156	625+
Semiconductor making	156	901*
Photoetching	430	313
Ethanol (See Alcohol)	568	840+
Beverages containing	426	592+
Dehydrating	203	19
Ethers	568	
Cellulose	536	84+
Nitrogen containing	536	43+
Cyclic hetero-o-type	549	200+
Oxy	568	579+
Phenol	568	630+
Thio	568	38+
Vinyl	568	687+
Ethers, Crown	549	347+
Ethyl		
Acetate	560	265
Cellulose not plastic	536	100+
Formate	560	265

	Class	Subclass
Nitrite nitrous ether	558	488
Ethylene (See Olefin Hydrocarbon)		
Ethylene diamine tetraacetic acid	562	566
Glycol	568	852
Polymer	526	352
Synthesis	585	500+
By cracking	585	648+
Urea	548	300+
Ethylenic Monomers		
Solid polymer solely therefrom	526	72+
Etiocholanic Acids	552	610+
Eucalyptol	549	397
Eudiometers	73	23.2+
Eugenol	568	652
Euphoniums	84	402
Eurhodines	544	347+
Eutectic, Refrigeration Utilizing	62	430+
Automatic	62	139
Process	62	59
Evacuated Chamber		
Means to introduce material into	414	217+
Means to seal chamber	414	292
Evacuating Receptacles	141	65
Air displacement in filling receptacles	141	59
Successive receptacles	141	65
Apparatus	141	65
Electric lamp etc manufacture	445	38+
Apparatus	445	73
Combined operation methods	445	56+
Methods	445	53+
Food preserving	426	404+
Storage receptacle	99	472
Gas filling combined	141	66
Hermetic closing of filled receptacle, method	53	403+
Radiant energy tubes	313	553+
Having heating means	313	549
Evaginated Shoe	12	142A
Sole attaching means	36	17A
Evaporator		
Boiler	122	
Cabinet combined	312	31.1+
Concentrating	159	
Spray type	159	3
Gaseous current	159	4.1+
Gas and liquid contact apparatus		
Porous mass	261	94+
Porous sheet	261	100+
Making	29	890.7
Oil combustion engine	123	522
Refrigerator	62	515+
Automatic	62	216+
Defrost water by heater	62	275+
Defrost water by refrigerator heat	62	279
Making	29	890.35
Sugar manufacture	127	16
Ventilator		
Building	98	30
Car	98	12
Car inlet	98	17
Evaporometer	374	39
Evener		
Animal draft vehicle equalizer	278	13
Horse detacher	278	32
Grain harvesters, head or butt	56	468
Textile loom, dobby	139	74
Excavation (See Digger)	37	
Caisson	405	272
Pressurized	405	8+
Clamshell buckets	37	183R+
Ditch filler	37	142.5+
Ditchers	37	80R+
Dredgers	37	54+
Mine ventilation	98	50
Mining or quarrying with separating	299	7
Orange-peel buckets	37	182+
Railway graders	37	104+
Railway snow excavators	37	198+
Road grader type	37	108R+
Roadway snow excavators	37	196+
Self-loading vehicles	37	4+
Shoring or bracing	405	272+
Snow excavators & melters	37	227+
Stump and removers	37	2R+
Tunnel excavating	299	
Tunnel ventilation	98	49
Excavator		
Dipper	414	690+
Force pump	37	75+
Pipe and cable laying combined	405	154+
Screw	175	394+
Suction pump	37	58+
Excelsior		
Making	144	185+
Package filling	493	967+
Exchange		
Heat	165	
Mortar mixers having	366	22+
Processes	366	4
Temperature regulation	236	
Tobacco smoking device	131	194+
Telephone	379	
Execution Devices		
Electric chairs	128	377+
Medicators	604	19+
Poisons	424	
Surgical instruments	606	1+
Trap animal		
Choking or squeezing	43	85+
Electrocuting	43	98+
Everset	43	64+
Explosive	43	84
Impaling or smiting	43	77+
Self reset	43	73+
Trap insect		
Adhesive	43	114+
Electrocuting	43	112
Exercising		
Arm wrestling	272	901+
Devices	272	93+
Breathing improvement	272	99
Field sports	272	100
Isometric	272	125
Weights	272	117+
Kinesitherapy	128	25R+
Light thermal and electrical application combined	128	363+
Music	84	465+
Opponent-supplied resistance	272	902+
Poultry feeding combined	119	70
Exfoliation		
Cereals	426	449+
Compositions	252	378R
Decorticating	19	5R+
Seed or seed parts	241	6+
Stone	125	23.1+
Exhaust (See Evacuating Receptacles)		
Mufflers	181	212+
Design	D12	194
Operated Brakes	188	154
Pipe making	29	890.8
Horns and whistles	116	138
Recirculation	123	568
Silencers	181	212+
For internal combustion engines	60	272+
Steam engine	60	681+
Treatment		
Combustion device feed in	60	683
Combustion engine	60	272+
Excess air to internal combustion engine	60	900+
Serially connected motors	60	679+
Furnace	432	67+
Furnace, metallurgical	266	144+
Furnace, solid fuel	110	203
Motors	60	685+
Rotary engines	60	901+
Exhauster (See Evacuating Receptacles)		
Filled receptacle cooking apparatus	99	359+
Heating etc gas making apparatus	48	173
Water closet tank outlet siphon	4	368+
Exhibiting		
Cards pictures and signs	40	
Design	D20	10+
Design display card	D20	40
Check controlled	194	
Dispensing combined	222	23+
Gem setting feature	63	30
Indicator combined	116	307
Exhibitor		
Cabinet with	312	234
Exit		
Bee hive	449	20+
Door lock	70	92
Fire escape chute	182	48+
Insect	160	12+
Railway car		
Control	105	341+
Emergency	105	348+
Stratifier discharge	209	494+
Expanded Metal	52	670+
Making	29	6.1
Expander and Expanding		
Anchor	411	15+
Expanding or piercing earth	52	155+
Boiler formers	72	393
Boring head cutter	408	199+
Building component	52	67
Cereals	426	449+
Apparatus	99	323.4+
Collapsible taps	408	147+
Exfoliated composition	252	378R
Face plate railway car	105	10+
Felly	157	9+
Gas liquefying and separating	62	36+
Processes	62	9+
Gate valve faces	251	193+
Hoof and shoe	168	47
Joints (See device incorporating)		
Liquefied gas fuel as refrigerant	62	7
Mandrels	269	48.1
Chuck	279	2R
Lathe work mount	82	169
Winding reel	242	63
Winding reel core	242	110
Metal making	29	6.1
Article	428	596+
Orthodontic	433	7
Pipe expanders	72	393
Methods of joint expanding	29	890.44
Piston ring applier	29	222+
Reamer	408	227+
Earth boring type	175	263+
Refrigeration by	62	
Rod or piston packings	277	138
Sheet metal shaping die	72	393
Tube cutter	30	103+
Wheel felly	157	9
Expansible Cabinets	312	205
Expansible Chamber Devices	92	
Expansion (See Expander)		
Engine, refrigeration producer	62	402+
Automatic	62	172
Liquefied gas producing	62	38+
Process	62	86
Joints		
Between articulated members	403	52+
Bridge	14	16.1
Building	52	573
Distillation apparatus	202	268
Flexible diaphragm or bellows	403	50+
Fluid distributor nozzle	239	397.5
Heat exchanger	165	81+
Pipe	285	298+
Resilient building	52	313
Static mold forming	249	9
Plug		
Metallic receptacle	220	233+
Pipe	138	89+
Reeds warp preparing	28	213
Valve, refrigeration utilizing	62	527+
Automatic	62	222+
Exploring		
Borehole and drilling study	73	151+
Depth sounding	73	290R+
Electro-acoustic	367	99+
Sound	181	
Diagnostics medical	128	630+
Earth boring	175	50
Electrical	324	
Electrical ore testing	324	376
Meteorology	73	170R+
Radar	342	191+
Radiosonde	340	870.1+
System	340	870.1+
Sound	181	
Explosion Control		
Acetylene generator	48	56
Blast or cupola furnace	266	174
Blowout plugs, frangible or fusible	220	89.1
Containers of inflammable substances	220	88.1+
Davy lamp or wire gauze protected		
Dry cleaning and laundry apparatus	68	209
Drying apparatus	34	51
Gas cooking stoves	126	42
Gas distribution	48	192
Gas holder high pressure safety escape	48	175

	Class	Subclass
Internal combustion engines	123	24R
Milling or grinding apparatus	241	31
Mine safety systems	299	12
Safes and bank protection combined	109	26+
Turbines	60	39.2+
Water back	126	35
Water elevators	417	73+
Explosive (See Ammunition; Bomb; Engine; Gun)	102	
Anchors	114	295
Article molding or shaping	264	3.1
Extruding	264	3.3
Forming or treating particulate material	264	3.4+
Rolling to form sheet or rod	264	3.2
Bag to contain explosive powder	102	282
Cap mechanical gun combined	124	2
Carbon preparation process	423	449
Charge making	86	
Comminution or puffing		
Apparatus	241	301
Cereals apparatus	99	323.4+
Cereals processes and products	426	625+
Processes	241	1
Vegetable processes	426	445
Compositions	149	
Devices	102	
Narcotic containing	102	512
Safes & bank protection combined	109	36+
Earth boring	175	2+
Fuses primers and igniting devices	102	200+
Impact driven fastener, eg nail	411	440+
Making apparatus	422	163
Material incinerator	110	237
Material treating	264	
Metal deforming X-art	72	706*
Metal forming	72	56
Mining	299	13
Operated assembling apparatus	29	254+
Operated one shot motor	60	632+
Operator		
Assembling device	29	254
Metal deforming device	72	430
Well tube perforator	175	2+
Power plant X-art	60	914*
Testing	73	35
Thermic compositions or charges	149	
Well		
Apparatus	166	63
Processes using	166	299
Torpedoes	102	301+
Tubing perforator	175	2+
Exposure		
Camera		
Automatic control system	354	410+
Electrophotographic copier	355	210+
Meter	356	213+
Expressing		
Butter and cheese cutter combined	425	308+
Butter worker combined	425	200+
Die		
Block and earthenware	425	308+
Block and earthenware	425	325+
Metal including powdered	72	253.1+
Mold core making	164	174
Particulate metal	419	67
Pastry and confections	99	
Pastry and confections	425	
Plastic molding	425	381.2
Soap molding	425	308+
Soap molding	425	325+
Drying combined	34	70
Presses	100	104+
Expression Mechanism Musical		
Applying expression lines to record	84	463
Automatic pneumatic expression mechanism for automatic pianos	84	33+
Automatic stringed instrument pneumatic action	84	33+
Electric organs	84	626
Electric organs	84	662
Electric organs	84	701
Electric organs	84	734
Piano	84	216+
Tracker bar modified for expression	84	157
Extension		
Cords	439	502+
Tables, co planar surfaces	108	65+
Extensometer		
Dilatometer	374	55
Distance measuring	33	784+
Dynamometer	73	862.39+
Electrical	324	
Gauges	33	501+
Optical	356	372+
Strain resistance	338	2
Stress strain test	73	760+
Extinguisher		
Boiler safety	122	504.3
Burner cap or cover	431	144+
Cigar and cigarette	131	256
Electric arc prevention	200	144R+
Electric contact arc prevention	361	2
Extinguishing composition	252	2+
Fire	169	
Design	D29	2+
Fluid type for burner	431	145
Furnace fire	169	54+
Ash pan	110	171
Inflammable fluid containers	169	66+
Signalling system electric	340	289
Tobacco ash receiver combined	131	235.1+
Tobacco product combined	131	347
Extracting and Extracts (See Material Recovered)		
Apparatus	422	261+
Beverage	99	279+
Mineral oil	196	14.52
Sugar	127	3+
Textile treating fluid combined with treating	68	19+
Biocidal	424	
Distillation combined		
Retort	202	107
Separatory processes	203	
Still	202	170
Still with	202	168+
Thermolytic processes	201	
Dye compositions	8	438
Dyes natural	8	646
Food	426	655
Chocolate	426	631+
Coffee	426	594
Coffee substitute	426	596
Coffee substitute from fruits or vegetables	426	594+
Condiments and flavors	426	650
Hop	426	600
Malt	426	64
Meat	426	656
Pectin	426	655
Sea food	426	655
Tea	426	435
Inorganic materials	423	210+
Actinide series compounds	423	249+
Crystallization combined	23	299
Crystallization selective combined	23	297
Medicinal animal	424	520+
Mineral oils	208	311+
Conversion combined	208	46+
Ores and metals	75	711+
Organic materials		
Algins	536	3
Alkaloids cinchona	546	134+
Alkaloids opium	546	44+
Alkaloids tobacco	546	282
Alkaloids undetermined constitution	546	1
Esters carboxylic acid	560	1+
Fats fatty oils ester type waxes higher fatty acids	260	412+
Glycosides	536	18.5+
N-glycosides	536	2+
Pectins	536	2
Synthetic resins from plant extract	528	1+
Tannins	560	68+
Sugar	127	43+
Tanning	8	94.32
Aluminum compound combined	8	94.3
Tobacco	131	297
Extractor (See Wringers)		
Bolt or screw	81	436+
Centrifugal	210	360.1+
Closure remover	81	3.7+
Can opener having	7	152+
Compound tool having	7	151+
Pliers having	7	126+
Disassembling apparatus	29	700+
Easy out	81	436+
Electrolyte treatment	204	233+
Nail	254	18+
Shoe lasting	12	16
Pen	29	808
Press	100	104+
Shell from firearm	42	25
Revolver	42	68
Tilting breech	42	46
Shell projectile or wad	81	3.5
Stump and poles	254	199+
Tooth	433	141+
Wheel spoke	157	12
Extruding (See Expressing Die)		
Hydrostatic extrusion	72	711*
Eye		
Artificial	623	4+
Contact lenses	351	160R+
Cup, protector	D24	66
Deformity correction	128	76.5
Doll	446	392
Movable	446	343+
Dropper	604	295+
Design combined with bottle	D 9	338
Design combined with closure	D 9	447
Dispenser combined	222	420+
Syringe	604	295+
Examining & testing instruments	351	200+
Design	D10	46+
Objective	351	205+
Subjective	351	222+
Test charts and targets	351	239+
Exercising	128	25A
Optometers	351	205+
With testing	351	203
Forming		
Chain making	59	21
Wireworking	140	104
Hook and eye fastener	24	698.1+
Design apparel	D11	208+
Design, hardware	D 8	367+
Relatively movable hook portions	24	598.4+
Sewing machine attaching	112	105
Interlocking wire machine	140	114
Neck yoke	278	125
Nose grips	351	132
Integral with bridge	351	131
Pince-nez	351	71+
Photography	354	62
Testing instruments	351	206
Pieces for optical instruments	350	579
Protecting masks	2	10+
Design	D29	18+
Protectors for animals	54	80
Design	D30	144+
Shields		
Electric welder S hood combined	219	147
Thill coupling	278	77+
Toy figure	446	392
Treating		
Douches	604	295+
Electrically	128	793
Exercising	128	76.5
Medicine	424	
Vision testing & correcting	351	
Eye Bolt, Making	29	7
Eye Glasses	351	41
Anti-glare or shading	351	44
Bridge	351	133
Cases	206	5+
Design	D 3	34
Cleansing compositions	252	89.1+
Contact lens	351	160R+
Contact lens fitting	351	247
Correctors	351	140+
Design	D16	102+
Eye shields attached	2	13
Fitting apparatus	351	200+
Gages for	33	200
Hinge	16	228
Holder	248	902*
Design	D16	129
Rigid container	493	914*
Metal frame making	29	20
Ornamentation for	351	51+
Special tool for	81	3.5+
Protective goggles	2	426+
Temple	351	121
Eye Goggles	2	426+
Anti-glare or shading	351	44
Design	D16	102+
Eye Lens Insertion	606	107
Eyebrow Brush	D 4	
Eyelash Curler	D28	36

	Class	Subclass
Eyelet	24	713+
Apparel fastener	D11	208+
Closure fastener sealing	292	314
Making by die shaping sheet metal	72	343+
Setting	227	51+
Eyeleting		
Machine	227	51+
Paper tag making	493	375+
Sewing machine	112	66
Eyeshade (See Eye Glasses)	D29	18+
Fabric (See Cloth; Metal; Paper; Textile; Web)		
Apparel per se	2	
Bed bottoms	5	186.1+
Belts or rolls for	206	389+
Boots and shoes	36	9R
Braided netted or lace	87	
Burnishing or lustering	26	27+
Cashmeres	D 6	603+
Central or S american patterns	D 5	20+
Chemically modified of	8	115.51+
Coated	428	245+
Coating and printing	427	
Electrolytic	204	21
Coating and uniting	156	
Coating and waterproofing compositions	106	
Cribs	5	98.1
Crocheted	66	193
Damask	139	416+
Design	D 5	
Distance measuring	33	732+
Fastener made of	269	906*
Feeding	226	
Felt	428	280
Fence	256	45
Barbed	256	5
Fire retardant composition for	252	608
Chemically modified fiber	8	115.51+
Folding	493	405+
By reciprocating piler	270	30+
Hammocks	5	122+
Insect traps	43	118
Insulated electrical conductors	174	124R
Plural layers	174	122R
Plural layers impregnated	174	121R
Knitted	66	169R+
Design	D 5	47+
Laminated	428	224+
Making	28	100+
Braiding, netting, lace making	87	
Electrolytic	204	
Felting	28	116+
Felting methods	28	116+
Finishing operations	26	
Knitting	66	
Needling methods	28	107+
Fluid needling	28	104+
Sewing	112	
Weaving	139	
Wireworking	140	
Medicated	424	443+
Needled	428	300+
Nonwoven	428	
Ornamenting mechanically	26	69R
Parchmentizing and uniting	156	76
Preserving, disinfecting, and sterilizing		
Biocidal compositions	424	
Fireproofing compositions	252	608
Pressing	38	
Apparel	223	52+
Hats	223	21
Ratine like ornamenting by rubbing	26	27
Ravelers	28	171+
Reinforced (See reinforcement belts and fabric)		
Sewing methods	112	262.1+
Sifting elements	209	401+
Softeners	252	8.6+
Spotting eg by chenille	223	45
Stitched seams	112	262.1+
Stretching frames	38	102.1+
Tensioning, sewing machine	112	121.26
Testing	73	159
Tire	152	DIG. 14
Carcass material	152	563+
Inner tube reinforcing	152	512
Interliners	152	204
Off-drum manufacture	156	906+
Toys covered with	446	269+
Web making	19	296+
Weftless	428	292+
Laminating	156	
Winding	242	55+
Wire	245	2+
Design	D 5	47+
Design for floor or wall	D 5	47+
Making	140	3R+
Working	140	107+
Woven	139	383R+
Fabric Softeners	252	8.6+
Face		
Bandage	128	163+
Bows dental	433	73
Orthodontic	433	5
Coverings	2	206
With therapeutic means	128	380
False	2	206
Hat combined	2	173
Guards (See masks)	2	9
Animal restraining type	119	96+
Lifter orthopedic	128	76B
Mill cutter		
Gear generating	409	10+
Rotary	409	64+
Plates		
Electrical box	174	55+
Electrical box	174	66+
Locks	70	450
Luminous	250	466.1
Receptacle closure	220	241
Train vestibule	105	21+
Train vestibule expanders for	105	10+
Protector	D29	17+
Radial sealing	277	81R+
Facer Construction (See Wall)	52	
Concrete layer	52	378
Disparate layers	52	506+
Facer to shaft	52	474+
Plaster type	52	344+
Holding panel	52	443+
Shingle type	52	518+
Facings		
Corrugated board	156	199+
Frictional gear	74	215
Shirt	2	122
Facsimile (See Copying; Pattern Control)	358	400+
Electric engraving	358	299
Electric lights form mosaic		
Matrix	340	780
Monogram	340	760+
Switching of lights by tape	200	46
Photographs sent by electricity	358	400+
Warp shedding	139	55.1+
Factice	260	399
Fade Resistance Testing		
By exposure to light	378	38
Fading		
Bleaching processes for photographic purposes	430	461+
Fagots Metal	428	588+
Fail-safe		
Apparatus fault recovery with	371	14
Digital logic	307	442
Electrical communications condition responsive indicating sysem	340	507
Engine fuel injection systems	123	479
Engine fuel pump cut off	123	359
Positional servo systems with	318	563
Fair		
Leaders		
Cable guides	254	389+
Spar or ship timber attached	114	101
Stitch machines leather sewing	112	31
Fall		
Boards for piano cases	84	179
With desk	84	178
Tube fluid or vacuum pumps	417	150
False		
Face	2	206
Hemstitch forming	112	179
Teeth	433	167+
Twisters	57	332+
With drawing means	57	328+
Fancy Roll		
Fiber preparation	19	98+
Fancy Yarn Making	57	317
Fans	417	
Design, hand fan	D 3	1+
Design, ventilation	D23	370+
Fumigating evaporator	422	124
Furnace exhaust	110	162
Heat exchanger	165	87
Heater	392	360+
Hot air furnace with	126	110R
Temperature regulating	236	10
Impeller making		
Axial	29	889.3
Centrifugal	29	889.4
Refrigeration combined	62	404+
Automatic	62	186+
Process	62	89+
Ventilation	98	
Faraday Shield	174	35R
For conductor	174	32+
For radio apparatus	455	300+
Transformer with	336	69+
Fare		
Box	232	7+
Recorder	346	33R
Register combined	346	15+
Register	235	33+
Recorder combined	346	15+
Farinaceous Coral Dough	426	496
Deep frying doughnuts	426	439
Fermentation	426	18
Farm Machinery Equipment Tools (See Type)		
Cabs for self-propelling machinery	180	89.12
Farriery (See Horseshoes)	168	
Calks	168	29+
Nonmetallic digest	168	DIG. 1
Overshoes	168	1+
Shoeing stands	168	44
Sole pads	168	26+
Tools	168	45
Traction shape digest	168	DIG. 2
Fastener (See Connection; Joint; Key; Lock; Securing Means; Spline; Tie)	292	
Aircraft skin	244	132
Apparel	24	
Attached to hat	132	57.1+
Button and eyelet attaching	227	
Coat collar	2	100
Design	D11	200+
Fastener attaching methods	2	265+
Metal stiffener with garment fastener	2	263
Necktie	24	498+
Pocket	2	251
Shoe antislipping device combined	36	62
Shoe sole	36	23+
Stiffener with attaching means	2	257
Beds		
Bedclothes to mattress	5	498
Bedstead corner	5	288+
Sheet having	5	496
Mattress to bed bottom	5	411
Bolts	411	378+
Book binding	281	27.3
Bottle or jar guard	215	29
Brake shoe	188	234+
Brush and broom tuft	15	190
Buckles buttons clasps etc	24	
Building		
Sash burglar alarm	116	16
Window bead	16	220
Window pane wood	52	598+
Camera plate holder	354	278+
Check label or tag	40	662+
Clasp	24	455+
Clip	24	455+
Closure	292	
Bank protection	109	59R+
Bank protection plural closure	109	7
Bottle	215	273+
Bottle pivoted	215	237+
Car journal box latch	384	190.7
Envelope	229	77+
Lantern projector	362	374
Letter sheet wrapper	229	92.5
Lock type	70	77+
Paper box	229	125.19+
Receptacle	220	315
Ship	114	203
Wood barrel	217	89
Composition		
Elastometric	269	907*
Fabric	269	906*
Leather	269	906*
Non-metallic	269	904*

	Class	Subclass
Paper	269	905*
Several materials	269	900*
Thermo-responsive memory	269	909*
Wood	269	905*
Design	D 8	
Harness	D30	134+
Driven headed and screw threaded	411	
Expanding anchor	411	15+
Explosive driving	411	440+
Folding sectional receptacle	220	7
Gun stock and barrel	42	75.1+
Hair	132	273+
Harness		
Collar	54	21
Design	D30	134+
Hame	54	26+
Pad	54	68
Trace and whiffletree	278	117
Key in lock retaining	70	429+
Making		
Button fasteners	29	4
Lacing studs	29	12
Paper fasteners	29	13
Wire clips	140	82
Musical instrument, stringed	84	297R+
Nail, spike, tack	411	439+
Nuts	411	427+
Paper integral making	493	390+
Plastic	411	904*
Railway car journal brass	384	191.4
Railway tire	295	15+
Railway track	238	310+
Splice bar	238	260+
Rake teeth	56	400
Rivets	411	500+
Sail	114	108
Sash cord	16	202+
Saw teeth	83	838+
Scaffolding pole	403	
Screws	411	378+
Separable-fastener, two part	24	572+
With protruding filaments	24	442+
Sheet fabric or web	24	
Abrading tool cylinder to	51	358+
Abrading tool disk to	51	358+
Abrading tool handle to	51	392+
Bandage	128	171
Bed bottom	5	194+
Billiard or pool table	273	7
Carpet	16	4+
Conveyor gripper	198	803.3+
Copy holders	248	451+
Ironing table cover	38	140
Printing sheet	101	415.1
Reeling & unreeling apparatus	242	74
Shoe animal	168	17+
Shoe last instep block	12	137+
Sign letter fastener	40	620+
Skate	280	11.3+
Ski	280	611
Slide	24	381+
Applying to material edge	29	243.58
Cutting of	83	921*
Making metal	29	408+
Making molded plastic	264	252
Apparatus	425	500+
Sorter	209	929*
Staples	411	457+
Support clamp	24	455+
Table leg	248	188
Tacks	411	439+
Tent cover	135	119
Tenter hooks or clamps	26	93
Web condition responsive control	26	93+
Tool handle	403	
Umbrella	135	36R
Vehicle wheel		
Detachable section	301	9R+
Nonresilient tire	301	87+
Velcro-type T M	428	100
Washers	411	531+
With tension indicator	411	8+
With torque responsive driving connection	411	1+
Work holders	269	
Wound strand	242	125+
Wound web	242	74
Zipper	24	381+
Slide	24	415+
Fatigue Testing of Materials	73	808+
By vibration	73	577+
Of structure	73	787
Fatigue Treatment		
Electrophotographic photoreceptor	355	211+
Fats	260	398+
Electrical discharge treatment	204	167
Electromagnetic wave treatment	204	157.6+
Fats & fatty oils with preservative	260	398.5
Fatty drying oil with preservative	106	263
Fermentative treatment	435	271
Foods containing	426	601+
Apparatus for	99	452+
Preservation	426	321+
Liquoring	8	94.23
Ointments	424	
Splitting	260	415+
Fatty Acids (See Soap, Making)	562	606+
Higher	260	413+
Faucets (See Valves)		
Aerators	261	DIG. 22
Barrel tap	137	317+
Brackets	248	212+
Drinking fountain combined	239	25+
Filter combined	210	418+
Fixture	D23	238+
Foam		
Carbonated fluids	137	896+
Carbonated fluids by aspiration	137	888+
Jet nozzle type	239	343
Handle design	D23	230+
Spigot joint means	285	8
Water aerator for	239	428.5
Fault Light Indicator	361	58
Feather		
Apparel trimming making and applying	223	47
Coating	427	4
Coating or plastic compositions containing	106	155+
Dyeing	8	404+
Fertilizers from	71	18
Fiber preparation from	19	4
Fowl plucking machine	17	11.1 R
Imitation	428	6
Implements for general cleaning	15	234
Mattress filling	53	524
Removing, butchering process	17	47
Synthetic resin or natural rubber containing	524	10+
Treating or drying	34	2
Treatment chemical	8	94.1 R+
Working	223	47
Feathering		
Impeller	416	98+
Paddle wheel sustaining aircraft	244	20
Wind motor tail vane	416	9+
Feedback Amplifiers	330	75+
Feeder (See Conveyor; Filler)		
Abradant supplying	51	263+
Abrader coolant	51	266+
Abrading work	51	215R
Abrasive supplying process	51	292
Agitating	366	150+
Interrelated discharging combined	366	131+
Mortar mixers	366	30+
Mortar mixers discharging and	366	27+
Air or steam		
Boilers	122	
Fluid pressure brakes etc	303	
Furnace	110	
Metallurgical furnaces	266	186+
Stoves	126	
Anesthetic	128	203.12
Animal food	119	51.1+
Bee	449	9+
Cage	119	18
Design	D30	121+
Stock car type	119	10
Timer controlled	119	51.11
Bar or tube	226	
Button fastening magazine	227	31+
Sewing machine mounted	112	113
Capillary (See wick)		
Acetylene generator water	48	25+
Coating machine of immersion type	118	401
Coating machine of solid applicator type	118	264+
Decanter and filter	210	294+
Dispensing	222	187
Fluid distributor	239	145
Force feed lubricators	184	64
Gas and liquid contact	261	75+
Water tube boiler	122	242+
Car unloading tilting track with	414	362+
Actuated by moving onto track	414	357
Rollable along underlying support	414	358
Rotates about fixed axis	414	359
Cartridge body or belt attached	224	239
Check controlled delivery	194	
Check row planter	111	34+
Coating implement combined	401	
Fountain pen bifurcate nib type	401	222+
Consumable electrode for lamps etc	314	
Control means	226	10+
Conveyers and feeders		
Accumulator receiving separated item	209	933*
Ambulant	209	935*
Centrifugal feeder	209	915*
Diverse sequential feed steps	209	914*
Driven or fluid conveyer moves item from separating station	209	925*
Endless belt pusher feed item	209	917*
Endless conveyer & feed through	209	923*
Endless feed conveyer, means for holding each item individually	209	912*
Fluid applied to items	209	932*
Free fall item feeding	209	908*
Gravity conveyer moving item from separating station	209	924*
Gravity influencing item moving	209	911*
Having opposed grippers	209	903*
Holding item by magnetic attraction	209	904*
Holding item by suction	209	905*
Hopper	209	910*
Inspection		
Illuminating means for visual	209	938*
Video scanning	209	939*
Item carrying bridge raisable to expose discharge opening	209	941*
Item holding feed magazine insertable in sorting apparatus	209	909*
Magnetic feeder	209	907*
Materials of construction	209	931*
Miscellaneous feed conveyers	209	922*
Moving items to sorting means in spaced relation lengthwise of feed path	209	934*
Operator selects destination of item	209	942*
Oscillating or reciprocating	209	921*
Reciprocating pusher feeds item	209	916*
Rotary feed conveyer	209	919*
Screw feed conveyer	209	913*
Swinging or rotating pusher feeds item	209	918*
Testing plural items as group	209	936*
Trough with at least one endless conveyer	209	923*
Vibratory feed conveyer	209	920*
Cutter or comminutor having		
Sheets and bars	83	
Solid material	241	
Dispensing	222	
Automatic weighers	177	116+
Check controlled	194	
Coating implement combined	401	137+
Corn popper with	99	323.9+
Inkwell combined	222	576+
Receptacle filling and closing	53	266R+
Distillation apparatus	202	262
Dough cutter	425	289+
Drilling machine feed mechanisms	408	129+
Earth boring type	175	162+
Electric conductors etc with fluid	174	15.6+
Electrolytic apparatus		
Cells with	204	242+
Electrode	204	225+
Feed water per se or combined		
Boiler	122	451R+
Boiler purification	210	311+
Condenser feed heater type	165	112+
Distillation still heater	202	167
Furnace	110	297+
Gas pressure discharge of traps	137	156+
Heater for boiler	122	412+
Power plant furnace regulation	60	645+
Power plant furnace regulation	60	660+
Festooner	226	104+
Fluid current conveyer	406	108+
Diverse conveyer feeder	406	51+

	Class	Subclass
Single for plural conveyors	406	123
Fuel		
Aircraft structure	244	135R
Coal tender	105	232
Furnace combined	110	101R+
Furnace type	414	147+
Nuclear reactor use	414	146
Internal combustion engine	123	495+
Progressive for furnace	110	267+
Reciprocating piston expansible chamber pump	417	437+
Special machine for sewing	112	121.17
Straw burning furnace	110	196
Trash burning cookstove	126	223
Valve retaining	261	DIG. 24
Valves	261	DIG. 23
Wet fuel furnace underfeed	110	255+
Gas manufacture		
Acetylene generator carbide	48	38
Acetylene generator water	48	4+
Heating gas oil retort	48	106
Glass melt	65	325+
Harvester grain adjusters	56	471
Heat exchange	165	120+
Invalid	414	9
Article manipulator analogous with hand, finger movement	414	1+
Liquid	137	
Acetylene generator	48	4+
Ambulant supply sprayers	239	146
Barometric feed to cooler	62	397
Battery electrolyte	429	72+
Bearing and guide material for oil	384	181
Centrifugal distributor	239	215+
Concentrating evaporators	159	43.1+
With alternating operating means	159	43.2
Diffusers slow	239	34+
Electrolytic apparatus	204	193+
Fountain pen	401	222
Fountain pen force feed or filler	401	143+
Fountains	239	16+
Gas and liquid contact apparatus	261	
Liquid contact with solids	134	
Liquid suspension separating	209	155+
Locomotive cab squirts	239	174
Metallurgical furnace	266	186+
Mineral oil distillation	196	135
Purification, material feed controlled	210	101
Purification, treating material addition	210	199+
Self proportioning systems	137	87+
Sprinklers, sprayers, diffusers	239	
Stratifier	209	500+
Water purification chemical	210	198.1+
Lubrication	184	
Main conveyor and collecting wing	198	601
Manicuring device with fluent material	132	74.5
Manufacturing device combined (See device per se)		
Ammunition and explosive charge making	86	45+
Ammunition loading	86	23+
Can body	413	70+
Can head	413	45+
Can head seamer with	413	27+
Cigar and cigarette making	131	38+
Laminated fabric hose making	156	
Leather skiving and splitting fixed knife	69	11+
Metal burnishing continuous	29	90.5
Metal founding molds	249	106
Metal heating and feeding		
Sewing machine for articles attached by sewing	112	104+
Sewing machine work	112	303+
Solder or flux	228	33+
Stock pushing or pulling	414	222+
Textile embroidery hemstitching	112	82
Textile felting	28	127+
Textile fiber working	19	204+
Textile knitted fabric manipulation	66	147+
Textile knitting	66	125R+
Textile strand	226	
Tool driving or impacting device	173	141+
Turning lathe carriage	82	132+
Web or strand	226	
Wire	226	
Wood shaving fixed knife	144	155+
Wood turning	142	
Woodworking	144	
Woodworking match making	144	50+
Manure spreader load	239	650+
Material handling elevator	414	592+
Mechanical gun magazine	124	45+
Member driving machines magazine	227	82+
Motion picture strip intermittent	352	166+
Music instrument automatic selectors	84	115+
Nail driving machine	227	107
Ordnance cartridge	89	33.1+
Paper tube making axial	493	302
Paper web for recorder	346	136
Paper web forming regulator for	162	259
Pavement marking material	404	94+
Pencil with	401	55
Pin feeders	226	52+
Power driven conveyor and chute	198	523+
Printing inkers	101	335+
Multicolor	101	202+
Railway car stops releasable	104	252+
Raking and loading machine	56	344+
Rivet setting magazine	227	51+
Screw conveyor opposed direction	198	657+
Screw conveyor plural direction	198	608
Separating with	209	
Gas suspension	209	146+
Liquid suspension gravity	209	172+
Paramagnetic	209	231+
Sheet or strip material		
Delivering or	271	
Electrolytic continuous electrode	204	206+
Label pasting machine	156	569+
Magnetic recording, moving head	360	81+
Magnetic recording, stationary head	360	88
Measuring combined	33	732+
Mechanical sound reproducing	369	258+
Endless	369	259
Motion picture	352	166+
Nail and peg driving implement	227	96
Platen combined	281	6+
Shoe nailing and stapling machines	227	
Tack driving implement	227	136
Telegraphic recorder	178	42
Telegraphophones photographic	369	125
Tobacco treatment	131	290+
Typewriter paper	400	578+
Typewriter ribbon	400	223+
U strip staple forming and setting machine	227	82+
Shockers automatic	56	402+
Sifting	209	243+
Discharging and	209	240+
Horizontal drum	209	284+
Sorting automatic with	209	509+
Strand	226	
Stratifiers with	209	497+
Discharging and	209	488+
Suctuon operated feed valve	261	DIG. 49
Tool driving or impacting device	173	141+
Track sanders	291	25+
Type case	276	45
Valve		
Acetylene generator gas & water	48	58
Dispenser transfixing	222	510
Dispenser with	222	544+
Dispenser with retarded	222	477
Web	226	
Feeler Mechanism		
Lock condition indicating	70	438
Looms		
Multicolor	139	233
Pattern sensing	139	331
Replenishing	139	269+
Thread cutter combined	139	264
Record sensing	235	475
Type distributors	276	23+
Setting combined	276	5
Feet		
Artificial	623	53+
Furniture	248	188.8
Ladder	182	108+
Surface compensating	182	200+
Stand	248	188.1+
Table		
Leg	248	188.1+
Pedestal supported	108	150
Pedestal supported extension	108	88
Wheel rim carried	305	4+
Fellies		
Expanding tire tightening	157	9+
Land wheel	301	95+
Making	144	
Felling Trees	144	34R
Boots and shoes	36	9R
Paper making	162	
Cleaners for porous material	162	274+
Pickers instrument tuning	84	460
Felt		
Fabric	428	280+
Laminated	428	297+
Paper making		
Endless drying	34	243R
Felting	28	116+
Chemical treatment precedent	8	112
Glass or mineral wool	65	4.1+
Apparatus	65	9
Hat making		
Design	D15	135+
Piano hammer	144	29
Fence	256	
Barbs		
Attaching to wire	140	58+
Making	29	7.1
Tap guard	256	11
Compound repair tools	7	117+
Design	D25	38+
Electric	256	10
Insulator	174	137R+
Hareware for	D 8	
Jet engine blast deflector	244	114B
Lighting	362	152
Lock	70	321+
Molds	425	84+
Noise baffle between airport and highway	181	210
Post design	D25	126+
Static mold	249	143+
Wire making	140	3R+
Wrapper for wire fencing	206	389+
Fencing Apparatus	272	98
Fender (See Mudguard)		
Automobile light combined	362	83
Boat	D12	168
Bridge pier combined	405	76
Carpet sweepers	15	45
Covers		
Automobile	280	762+
Design, fireplace	D23	403+
Horse rake	56	399
Land vehicle including railway car	293	
Marine structure	405	212
Plant protecting	172	509+
Railway car combined with draft	213	
Roof	52	24+
Scuff plate	280	848
Ship	114	219+
Stove	126	201+
Vehicle	293	
Design	D12	186
Magnetic fender securing device	293	DIG. 6
Pusher attachment for tractors	293	DIG. 1
Ferment		
Medicine containing	424	
Fermenting	435	
Animal foods	426	53
Apparatus	435	287+
Beverages	426	7+
Apparatus	99	275+
Fertilizers	71	8+
Tobacco treatment	131	308
Ferments Acclimatization	435	245
Ferris Wheel	272	28R+
Ferrocenes	556	143+
Ferrocyanogen Compounds	423	364+
Ferroelectric		
Battery	136	254
Information storage and retrieval		
Interconnection	365	65
Radiant energy	365	117
Photoconductivity and	365	109
System with particular element	365	145
Ferrotype Plates	354	351
Ferrous Alloys		
Composition	420	8+
Electrolysis		
Aqueous bath coating	204	43.1+
Aqueous bath synthesis	204	123+
Fused bath synthesis	204	71

	Class	Subclass
Treatment	204	140+
Electrothermic processes	75	10.1+
Heat treatment	148	134+
Special composition with	148	14
Working combined	148	12R+
Pyrometallurgy	75	507+
Ferrule	16	108+
Assembly and dissassembly	29	282
Hand tools	29	280+
Percussive or explosive operator	29	255
Design	D 4	199
Digest, brushes & cleaning tools	15	DIG. 4
Making		
Metalworking methods	29	428+
Wireworking	140	76
Ring ferrules	16	109
Ferry		
Boats	114	70
Slips	114	231
Suspended car or load carrier	104	90
Fertile Nuclear Conversion Material (See Nuclear Reactions, Reactors)	376	172
Fertility, Pregnancy	436	510*
Fertility tests	435	806*
Fertilizers	71	
Adjuvant	71	DIG. 1
Apparatus	422	193+
Chelating agent	71	DIG. 2
Defluorination	71	DIG. 3
Distributing machines	222	
Application to plant	47	48.5
Scattering unloaders	239	650+
Distributing machines below ground	111	
In irrigating systems	47	1.1
Festoon	428	10
Collapsible	428	9
Paper, making	493	957*
Festooning (See Loopers)		
Fetters		
Animal husbandry	119	127
Butchering	17	44+
Design	D30	151+
Portable locks	70	15+
Fez	D 2	256+
Fiber (See Filament)		
Bicomponent	428	373
Blend	162	181.1
Blend	162	141
Bonding apparatus	156	433
Bonding methods	156	166+
Bristles	15	159A+
Brushes design	D 4	
Chemical modification of	8	115.51
Cleaning or laundering	8	137+
Coating	427	212
Coating with	427	180+
Composite	428	373+
Crimped	428	370
Composite metal	428	607
Composition (See type)		
Crimped	428	369+
Staple length	428	362
Dyeing & bleaching	8	
Fiber optics	358	901+
Fluid treatment of	8	147+
Glass compositions	501	35+
Glass manufacturing	65	1+
High modulus	428	902*
Insulated electric conductor	174	124R
Plural layers	174	122R
Plural layers impregnated	174	121R
Isocyanate & carbonate fiber modification	8	DIG. 11
Layers needled	428	300
Liberation & paper making	162	
Making		
Powder metallurgy	419	4
Micro fiber	428	903*
Optics	350	96.1+
Sign	40	547
Polyvinyl halide esters or alcohol fiber modification	8	DIG. 1
Preparation (See textile prep)	19	
Refractory compositions	501	95
Retting		
Chemical	162	1+
Fermentation	435	279+
Rods	350	96.1+
Fiber optics	358	901*
Photocopy device use	355	1
Spinning mechanical	57	315+
Staple length	428	359+
Strand structure	57	200+
Swelling & stretching	8	DIG. 3
Testing	73	159+
Textile (See type)		
Coated or impregnated	428	245+
Treatment		
Bleaching	8	101+
Carroting	8	112
Chemical modification	8	115.51+
Cleaning or laundering	8	137+
Coating	427	412
Coating, general processes	427	
Comminution	241	
Dyeing	8	
Electrolytic treatment	204	132+
Fluid apparatus	68	
Fluid processes manipulative	8	147+
Liberation chemical	162	1+
Liberation physical	19	1+
Swelling or plasticizing	8	130.1+
With structure or coating	428	364+
Fiber Board Making	156	62.2+
Fiber Board Making	264	109+
Fiber Optic Lamp	D26	27
Fiber-reactive Azo Dyes	534	617+
Fiberglass		
Coating	427	389.8
Fishing rods	43	18.5
Metallic receptacles digest	220	DIG. 23
Fibrillation		
Cellular materials	264	DIG. 8
Diagnostic testing for	128	705
Textiles fibrillated	57	907*
Fibrin	106	161
Fids	114	221R
Field		
Artillery	89	
Mounts	89	40.1+
Glasses	350	545+
Design	D16	133+
Holders	350	547+
Optics	350	481
Magnet for electric machine	310	180+
Field Sport Devices	272	100+
Fifth Wheel		
Land vehicle		
Articulated	280	433+
Running gear swinging axle	280	80.1+
Figure		
Decorative with illumination	362	808*
Toys	446	268+
Air actuated	446	199+
Aquatic	446	156+
Design	D21	148+
Knockdown	446	97+
Spinning or rotating	446	236+
Toy money box with coin deposit figure release	446	10+
Velocipede type	280	1.13+
Wheeled	446	269+
Filament (See Strand; Wire)		
Bonding apparatus	156	441
Bonding methods	156	60+
Filament formation	156	167
Filaments only	156	180+
Filaments winding	156	169+
Stressed filaments	156	161
Cereal	426	560
Container for non-spooled	206	388
Container or wrapper for coiled	206	389+
Cutting filament-to-staple fiber	83	913*
Distributing explosive device	102	504
Electric lamp	313	341+
Compositions	252	500+
Mounting methods	445	29+
Electronic tube	313	341+
Replaceable filament	313	237
In electronic tube	315	46+
In electronic tube	315	49
Laminating	156	166
Lantern projector combined	362	211+
Making		
Electric conductor	156	47+
Electroforming	204	12+
Electrolytic apparatus	204	206+
Electrophoretic	204	180.4
Glass apparatus	65	1+
Glass processes	65	2+
Liquid comminuting and solidifying apparatus	425	6+
Liquid comminuting and solidifying processes	264	5+
Metal casting	164	423+
Metal drawing	72	274+
Metal working plastic	72	253.1+
Molding apparatus	425	66
Molding apparatus	425	67
Molding apparatus	425	76
Molding apparatus	425	382.2
Molding processes	264	165+
Powder metallurgy	419	4+
Spinning twisting or twining	57	
Textile misc processes	28	299
Metal	428	606
Coating of	427	216+
Compound	428	607
Multiple filament lamp and electronic tube	315	64+
Spun twisted or twined	57	200+
Design yarn cord	D 5	7+
Stock material	428	364+
Supply circuit for electronic tube	315	94+
Testing	73	160
Tires combined	152	168
Transformer	336	
With anode supply winding	336	170+
With anode supply	315	94+
With grid bias	328	226
With grid bias power packs	307	150
File or Filing		
Binder device releasably engaging aperture or notch of sheet	402	
Cabinet, design	D 6	432+
Cabinet with material retainer	312	183+
Card spacer	283	36+
Dental	433	141+
Directory	40	371+
Folder	493	947*
Handles	29	80
Hoof trimming	168	48.1+
Leather	69	1
Implement	69	20
Manicuring	132	76.4+
Combined in compound tool	132	75.6
Metal and metal working files	29	76.1+
Cleaning and resharpening by electrolysis	204	141.5
Cleaning and resharpening by sand blast	51	414
Making	76	12+
Processes of abrading	51	313+
Pencil sharpening (See pencil sharpener)	29	78
Rasps and	29	78+
Receptacle file partition	220	529+
Riffle file	40	372
Rotary or flip card	D19	75
Sharpening tools by	76	82+
Saw sharpening	76	31+
Sorting type desk	211	11
Fillers		
Barometric control of dispenser	222	479
Bars for beds	5	283
Cables conduits with fluid or vacuum	174	8+
Cables conduits with insulation	174	68.3+
Composition	106	400+
Shoe	106	38
Curtain shade or screen seals	160	40+
Dispenser and receiver combined	141	
Portable receptacle	141	173+
Dispenser with refilling of supply	141	18+
Ditch	37	142.5
Floor mats pivoted link	15	240
Fountain pen combined	401	118+
Force means in filler	141	20.5
Gas generator	48	74
Insulating heat or sound	252	62
Mattress	5	448+
Foam materials	5	481
Pastry	99	
Pastry	425	230+
Printing member	101	402+
Rail joint containing	238	163
Safe wall structure combined	109	84
Sheet metal cup die shaping	72	54+
Sound mufflers having	181	282
Synthetic resin or natural rubber (See class 523, 524)		
Wheel web combined	295	23
Filling		
Abrasive bag making	51	294

	Class	Subclass
Ammunition cartridge packing	86	47+
Ammunition loading	86	23+
Attachments for metallic receptacles	220	86.1+
Automatic weigher	177	116+
Removable weigh chamber	252	62+
Bags	141	313+
Bail stopper type	53	265
Barometric control of dispensing	222	479
Battery grid processes	141	
Bottles	141	
Brush making machine	300	9
Capsules	141	237+
Cigarette making by tube	131	70+
Confectionery machines	99	
Confectionery machines	425	130+
Container refilling by dispensing means	141	21+
Dental	433	226+
Carrier	433	163
Compositions	106	35
Dispenser and receiver combined	141	
Distillation retorts	201	40
Golf ball making	156	146
Match boxes	53	236
Match making combined with	144	61
Dipping frames	144	63+
Milk receptacle with funnel	232	43
Paper receptacle closing by plural steps with	53	266R+
Paper receptacle filling &&closing	53	467+
Plastic molding blank covering &	425	110+
Portable receptacles	141	
Cooking combined	99	356
Shoe filling appliers	12	18.1+
Processes	12	148
Storage batteries	429	72+
Subterranean cavity with cement	405	267
Weaving (See weft)	139	
Film		
Accumulating dispensers	222	423
Discharge assistant type	222	403
Removable from supply container	141	112+
Badges		
Radioactivity	250	472.1
Burster sounding toy	446	181+
Processes	159	49
Cassette	D14	121
Cine film	430	934*
Container or wrapper for	206	389+
Distillation separatory	203	72
Distillation separatory	203	89
Mineral oil	208	360
Editor viewer	352	129
Electroforming of	204	12+
Electroplating of	204	27+
Nonconducting	204	22
Flotation separation	209	207
Forming apparatus	425	223
Forming apparatus	425	224
Forming process	264	165+
Heaters and vaporizers	122	39
Holders	354	276+
Motion picture	352	232+
Rewinder	242	179
Storage cans	352	78R
Winding and reeling	242	179+
Photographic	430	495
Acetate recovery from	536	78
Badges	250	475.2
Cabinet	312	20
Cartridge or pack	430	471
With structure	354	275
Cassette	242	71+
Cleaner	15	100
Coating apparatus	118	
Coating processes	430	935*
Color	430	541+
Developing machines	354	297
Digest, drying & gas or vapor contact with solids	34	
Fluorescent screen	250	475.2
Guides developing apparatus	354	339
Holders	354	276+
Metal recovery from photographic material		
Hydrometallurgy	75	713
Pyrometallurgy	75	635
Pyrometallurgy combined with hydrometallurgy	75	417
Nitrate recovery from	536	40
Processing machines	354	297+
Processing, manipulative	354	297+
Radioactive sensitive	430	942*
Projector	353	
Motion picture	352	232+
Reel	D14	122
Reflection reducing on optical surfaces	350	164+
Motion picture	352	233
Splicer	350	164+
Design	D 8	70.1
Machine	83	948*
Winder	242	179
Spool	242	71+
Stills separatory	202	236
Stripping sensitized film	430	264*
Type of concentrator and evaporator	159	5+
Vaporizer for mineral oil	196	128
Winding apparatus, motion picture	242	179+
X ray apparatus using	378	
Filter (See Filtering)		
Aid	210	500.1+
Applying means	210	193
Applying process	210	777+
Choke input	333	181+
Cigarette or cigar	131	331+
Color filter	350	311+
Photographic chemically defined	430	7+
Container or wrapper for	493	941*
Crystal	333	187+
Decoupling	333	181+
Diaphragm type cell having	204	264
Dispenser combined	222	189
Electric current frequency	333	167+
Electrical		
Balancing in radio receiver	455	339
Blocking type	333	167+
Digital	364	724.1+
Frequency modulation for receiver	455	213
Noise control	455	307
Antenna coupling	455	286
Electrolyte feeding combined	204	276+
Electrolyte treatment	204	240
Electrolyte recirculation	204	238
Leacher dissolver or extractor	204	235
Furnace door combined	110	179
Gas	55	
Frozen constituent removal	62	15
Refrigeration combined	62	317
Glare screen on vehicle body	296	97.1+
Heat exchanger combined	165	119
Heat ray	350	311+
Heating boiler combined	122	431
Internal battery cell having	204	249
Light ray	350	311+
Color photographic elements	430	495+
Color photography	430	357+
Hand lamp	362	166+
Infrared	350	1.1+
Lenticular	354	101
Projection dimmer	362	257+
Signal lamp	362	166+
Ultraviolet	350	1.1+
X ray	378	156
Liquid		
Congealing liquid process	62	67
Design treatment	D23	209
Frozen constituent removal	62	123+
Purification or separation	210	500.1+
Purifying	210	348+
Refrigeration combined	62	318+
Sediment testing	73	61R
Oil, fuel entering nozzles or float chamber	261	DIG. 4
Optical	350	311+
Compositions	252	582+
Making coating	427	162+
Press	210	224+
Ray generation combined	250	503.1
Refrigerant	62	474+
Automatic	62	195
Process	62	85
Smoking device	131	202+
Smoothing	333	181+
Sound	181	175+
Using electronic tubes	328	138
Still vapor treating	202	200
Tuning fork	333	186+
Filtering		
Electrolytic water or sewage treating combined	204	152
Gas purifying	55	
Expansible chamber device with	92	78
Liquid metal	75	407+
Liquid purifying	210	
Expansible chamber device with	92	78
Mode	333	248+
Polarization	333	248+
Oil purification	208	177+
Dehydration	208	187
Vapor treatment	208	347+
Radiant energy in space	343	909+
Sugar treatment	127	55
Treating drying or solid contacting gas or vapor by	34	82
Vaporous metal	75	407+
Finance, Computer Applications	364	408
Finder		
Camera view	354	219+
Distance and vertical angle	33	284
Electric trolley	191	72+
Exposure lens	354	152+
Optical accessories for photography	354	219+
Ground glass	354	152+
Switches for telephone systems	178	16+
Finger		
Article manipulation by finger like movement	414	1+
Attachable coating implement with material supply	401	6+
Attachable or conforming penholder	15	443
Attachments handling implements	294	25
Automatic musical instrument selector	84	117
Blotter attachment	34	95.2
Boards for stringed instruments	84	314R
Cots or protectors	2	21
Cutting tool, finger supported	30	298
Blade guard or guide	30	291
Shears	30	232
Exercisers	272	67+
Kinesitherapy	128	26
Music	84	465+
Glove	2	163
Guard for door	49	383
Harvester cutter guard	56	310+
Bars and	56	307+
Sickles and	56	298
Supplemental lifting	56	312+
Interlocking bed corners	5	295
Letter box guard	232	54
Print		
Fingerprinting outfits	118	31.5
Identification type printed matter	283	69
Methods	427	1
Printed matter alteration preventing	283	69
Release for control lever pawl	74	537+
Ring		
Blotter supporting	34	95.2
Jewelry	63	15+
Jewelry design	D11	26+
Making and sizing	29	8
Metal founding molds	249	57
Penholder supporting	15	443+
Supports for tobacco users	131	258
Stringed instrument fingering devices	84	315+
Stringed instrument picks	84	322
Supported cutting tool	30	298
Typewriter paper feeder	400	645+
With feed roller	400	638+
Finger Cot	D 4	103
Fingernail		
Brush	D28	57
Polish	424	61
Removers	252	162+
Fingerprinting	427	1
Finial (See Product)		
Drapery rod	D 8	378+
Pendant or finial type article	428	28
Finings	426	654
Apparatus	99	277.1+
Finishing		
Block concrete or ceramic	264	
Bolt heads	10	19+
Fabric	26	
Seams stitching combined	112	217
Nails horseshoe	10	38+
Cutting combined	10	37
Paper	162	204+
Pavement	404	83+
Stereotype plate	29	21
Planing backs	409	309+

	Class	Subclass
Straps leather	69	17
Thread	28	217+
Type casting combined	199	81+
Fins		
Heat exchanger	165	185
Nuclear fuel having	376	435
Stabilizing ships	114	126
Steering ships	114	152
Submarine diving	114	331+
Vertical on aircraft	244	91
Fire (See Burner; Fireproof)		
Alarms		
Electric detectors	340	577+
Electric system automatic	340	577+
Electric systems	340	287+
Smoke bells	362	379
Thermal control	116	101+
Thermal electric switch	337	298
Thermometer systems	374	141+
Electrical	374	166+
With indicator	116	5
Brick	501	94+
Design	D23	422
Cigarette lighters	D27	141+
Detector (See alarms)		
Doors furnace	110	173R+
Electric starter device	D 7	416+
Engine	169	24
Boiler feed heater	122	418+
Heating system combined	237	12.2
Hose and ladder type	280	4
Ladder or escape	182	63+
Escape	182	
Rope and brake	188	65.1+
Extinguisher	169	
Boiler fires	122	504+
Compositions	252	2+
Fire retarding	169	45
Design	D29	2+
Gas agent	169	11+
Toy vehicle	446	432
Extinguishing	169	
Aerial fire apparatus	244	136
Methods of spraying fluids	239	1+
Nozzles automatic	169	37+
Processes chemical	169	43+
Shipboard	169	5
Fighting	D29	
Hose	D23	266
Hose nozzles	239	
Design	D23	213+
Hydrant	D23	234
Ladder	D25	62+
Mask	D29	7+
Vehicle design	D12	13
Kindling	431	6+
Composition	44	542+
Design solid fuel	D13	100
Matches design	D27	139+
Plate	126	148
Pots and linings	126	144+
Thermostats	236	104
Preventing		
Devices, design	D29	
Receptacle attachments	220	88.1+
Textile apparatus	68	209
Retarding composition	252	601+
Biocidal composition with	424	
Containing gas	252	605
Dispersion or colloidal systems	252	611
Fiber chemically modified	8	115.51+
For living matter	252	603
For synthetic polymer	252	609
Intumescent	252	606
Paper-making or fiber liberated	162	159
Stock material mechanically interengaged strands	428	276
Fire or flame proof features	428	921*
Synthetic polymer use	252	609
Trees, grass use	252	603
Woven material use	252	608
Screen	126	544
Starting devices	D 7	416+
Stop	52	317
Telegraphs	340	287+
Tong	294	11
Design	D 8	52+
Tube	122	
Fire-polish Glass	65	
Firearm (See Gun)	42	
Automatic	89	125+
Barrels	42	76.1
Bayonets	42	86
Bolt making	29	903*
Breech loading	42	2+
Cane guns	42	52
Converted to spring gun	124	28
Design	D22	100+
Firing mechanism	42	69.1+
Imitation, light flashing	362	112
Light combined	362	110+
Magazine chargers	42	87+
Making	29	1.1
Muzzle loaders	42	51
Pistol swords	42	53
Plural triggers	42	42.2
Revolvers	42	59+
Sights	33	233+
Silencers or mufflers	181	223+
Simulating		
Dispenser	222	79
Light	362	157+
Stocks	42	71.1+
Toy	42	54+
Design	D21	145+
Firebox (See Furnace)		
Feeding steam air or water	110	297+
Feeding water to	110	297+
Fire tube	122	44.1+
Flue	122	135.1+
Fuel disperser installed in	431	159
Liquid heater or boiler combined	122	
Locomotive		
Structure combined	105	37+
Type combustion features	110	
Type water heating	122	
Smoke and gas return to	110	203+
Solid fuel	110	317+
Straw and wet fuel burning	110	196
Water		
Tube	122	235.34+
Wall	122	294
Firebrick		
Carbide containing	501	87+
Design	D23	422
Refractory	501	94+
Firecracker	102	361
Firedamp		
Analyzing and testing apparatus	422	50+
Indicators	73	23.2+
Firedogs	126	298
Design	D23	407
Firefighting (See Fire)		
Fireless Cookers		
Heat accumulators	126	400
Ovens	126	273.5
Vessels	126	375
Fireplace	126	500
Arches	52	219
Dampers	126	536
Design	D23	343+
Fenders	126	201+
Design	D23	403+
Grates	126	540+
Design	D23	398+
Heating systems having	126	509
Logs		
Electric	272	8R
Gas	431	125+
Gas design	D23	409
Mantel design	D23	404
Screen	126	544
Digest	16	DIG. 11
Shelves	126	505
Fireproof (See Fire, Retarding; Insulating, Heat)		
Miscellaneous compositions	252	601+
Plastic or coating compositions	106	15.5+
Reactive building component	52	232
Stock material	428	920*
Synthetic resin or natural rubber (See synthetic resin or natural rubber)		
Cellular product	521	50+
Fireworks	102	335+
Loading	86	20.1+
Firing		
Clayware processes	264	56+
Devices or mechanisms		
Ammunition & explosive devices	102	200+
Automatic firearms and guns	89	132+
Blasting	102	200+
Drop bomb	102	396
Firearm nonautomatic	42	69.1+
Gun cartridge	102	470+
Mechanical guns	124	31+
Mine	102	424+
Mines marine	102	416+
Ordnance nonautomatic	89	27.11+
Electric	89	28.5+
First Aid		
Cabinets	312	209
Kits	206	570+
X-art collection	206	803*
Fischer-tropsch Crude Processing	208	950*
Fischer-tropsch Synthesis	518	700+
Fish (See Fishing)		
Butchering apparatus	17	53+
Fish bowl design	D30	101+
Hooks	43	43.16
Knife for kitchen use	D 7	649+
Liver extraction		
Fats etc	260	412.1
Medicine containing	424	554+
Vitamins	260	
Net	43	7+
Design	D22	135
Fabric and processes for making	87	12
Making apparatus	87	53
Plates	238	243
Special, bolt or nut to substructure lock	411	94
Special culture	119	3
Fisherman's Tool	D22	149+
Fishing	43	4+
Amusement fish ponds	273	140
Automatic hookers	43	15+
Bait, tackle, and catch container	43	54.1+
Bait or lure carrier	224	920*
Minnow buckets	43	56
Design	D22	136
Baskets and creels	43	55
Belt with lure holder	D 3	100+
Containers & carrying cases	D 3	38
Design	D22	134+
Equipment	D22	134+
Files, work holder for	269	907*
Fish traps	43	100+
Hooks	43	43.16
Design	D22	144
Making	29	9
Line	43	44.98
Reel	242	223+
Attachments	242	322
Design	D22	137+
Rod	43	18.1+
Cover or container for disjointed	43	26
Fly tieing	242	7.19
Holder	224	922*
Method	242	7.2
Snelling	242	7.19
Stringers	224	103
Tackle and accessories	43	4+
Tool		
Compound	7	106+
Electricians	254	134.3 R
Traps	43	100+
Design	D22	121
Trotlines	43	27.4
Holder	43	57.3
Vessel	114	255+
Weighing of fish	D10	87+
Fishing Rod	D22	137+
Fishing Rod Holder	D22	147
Fission Counter Scintillations	250	361R+
Fission Sustaining Nuclear Reactors	376	
Fitting Boots and Shoes	36	8.4
Fittings		
Bath basin and receptacle	4	191+
Design	D23	271+
Electrical		
Boxes housings	174	50+
Conductor insulator combined	174	169+
Making		
Gas and water	29	890.14+
Pipe	285	120+
Fluid distribution design	D23	200
Gaslight design	D26	113+
Scaffolding design	D25	66
Suspended support	248	342+
Fixatives		
Artists	106	
Electrophotographic copier	355	282+

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	Class	Subclass
Perfume	512	2
Photographic	430	455+
Flag	116	173+
Badge	40	1.5
Design	D11	165+
Design, insignia or jewelry	D11	165+
Pole or post structure	52	720+
Socket	52	298
Staff	116	173+
Decorative element	52	301
Staff type support	248	511+
Flagpole	52	720
Design	D11	181
Holder	D11	182+
Socket	52	298
Flail		
Cotton harvester	56	29
Threshing machine	460	61
Flails Flexible	51	334
Flake Ice Making	62	320+
Flakes		
Coating	427	212+
Electroforming	204	10
Flame (See Fire; Fireproof)		
Arc lamp	313	231.1+
Movable electrode	314	
Arrester	48	192
Dispenser having	222	189
Receptacle having	220	88.1+
Respirator	128	202.24
Bonding by	228	902*
Colorant composition for fuel	44	642
Deflector		
Deflector in furnace	431	171+
Resistance, coated	427	393.3
Retardant, textile collection	57	904*
Thrower	431	91
Flanger		
Pipe or tube	72	316+
Sheet	72	101
Flannel and Flannelette Napping	26	29R+
Flap		
Bag closures	383	84
Envelope moistening & sealing	156	441.5
Head coverings	2	172
Paper receptacles		
Closure for paperboard box	229	126+
Letter sheet closure	229	92.7
Pneumatic tire	152	514
Shoe sole channel machines		
Layers	12	29
Turners	12	30
Flare		
Burners		
Magnesium strip	431	99
Solid fuel	102	336+
Dropping	89	1.51+
Guns	42	1.15
Package for	206	803*
Pyrotechnic	102	395+
Composition for	149	
Design	D22	112
Parachute	102	337+
Torches	102	336+
Flaring Tool (See Pipe Making)		
Flash		
Camera attachment	D16	239+
Electric weld	219	97+
Flash bulb mount	D16	239+
Flash removal	425	806*
Spotlight	D26	24+
Trimmers	83	914*
Flash Bulb		
Combustion type	431	358+
Mount design	D16	239+
Flashing	52	408+
Exterior type, eg roof	52	58+
Glass	65	60.1
Lamps		
Sign	40	541+
Sign systems	340	791+
Switch in lamp	315	72
Systems	315	
Light as signal	40	902*
Pipe and plate joint roof flashing type	285	42+
Signals	340	331
Flashlight		
Combined with structure of another device	362	157+
Canes	362	102
Pen or pencil	362	118
Electric	362	208
Bicycle operated generator	362	193
Design	D26	37+
Hand generator per se	310	50
Hand operated generator	362	192
Electric generator combined	362	192+
Bicycle	362	193
Flash powder and photoflash	431	357+
Flask		
Adjustable	164	377
Pattern with	164	237+
Plastic molding	425	175+
Flat Pack Electronic Device	174	52.4
With semiconductor	357	74
Flat Tire Alarm		
Electric	340	442
Switch	200	61.22+
Nonelectric	116	34R
Flatiron	38	74+
Design	D32	68+
Heating		
Automatic temperature regulators	236	7
Electric	219	245+
Liquid and gaseous fuel	126	230
Self heating liquid and gaseous fuel	126	411+
Stove and furnace	126	227+
Stands combined	38	142
Steam	38	77.1+
Support	248	117.1+
Ironing table combined	38	107
Flats		
Bed bottoms	5	186.1+
Carding	19	113
Grinding	51	243
Stationary	19	104
Stripping	19	110+
Traveling	19	102
Flattening (See Crusher; Straightening Devices)		
Glass	65	67
Sheet material rolling or wrapping combined	53	116+
Textile ironing and smoothing	38	
Tobacco leaf	131	324+
Stemming combined	131	315
Flatware-tableware	D 7	642+
Disposable	D 7	642+
Flavanthrone	546	31
Flavones	549	403
Flavors	426	534+
Artificial	426	533+
Flavylium, Basic Dye	8	657+
Animal-derived natural fiber	8	426
Printing permanently	8	454
Flaw Detection		
Magnetic	324	238+
Induced voltage-type sensor	324	240+
Oscillator type	324	237
Utilizing radiant energy	250	
Flax (See Fiber)		
Retting	435	279+
Thresher	460	24
Flechettes	244	3.24+
Ammunition	102	703*
Fleece		
Dividers in fiber preparation	19	151
Knitting		
Fabric or articles	66	194
Needle cooperating wheels	66	94
Unknitted materials	66	191
Fletching Jig	269	38
Flexible		
Concentric electric cable	174	102R+
Fluid vacuum or air	174	28+
With insulation spacer	174	99R+
Flail tools	51	334
Remote control cable	74	500.5+
Shafts	464	
Tubing	138	118+
Flicker Beam Photometer	356	217
Flier		
Spinning machine	57	67+
Flier elements	57	115+
Flies		
Design fishing bait	D22	125+
Sheet delivering	271	83
Trouser	2	234
Flight Training Simulator	D25	1
Flint		
Composition	420	416
Firearm firing device	42	69.1+
Lighter	431	273+
Special packaging for	206	528+
Flip Flop Oscillator	331	144
Driven type	328	193+
Gas tube type	331	113R
Flippers for Swimming	D21	239
Floating Compasses	33	364
Floats	169	DIG. 1
Ballasting	114	123
Marine pipe or cable laying	405	158+
Submergible floating matter barrier	405	64
Submergible marine structure	405	205
Submergible wave or flow dissipator	405	23
Buoy	441	1+
Closure	220	216+
Controlled		
Alarm	116	110+
Alarm electric	340	623+
Boiler safety device	122	505
Bottle nonrefillable	215	20
Burner liquid fuel	431	64
Closure	49	21+
Dispenser fluid pressure discharge	222	62
Dispenser indicator	222	51
Dispenser material level	222	67+
Flood gate	49	11
Funnel valve	141	199+
Funnel valve air displacement	141	199+
Gas liquid contact	261	70
Liquid feeder traps	137	165+
Liquid level indicator	73	305+
Liquid purifier	210	121+
Liquid purifier level indicator	210	86
Pump electric	417	36+
Pump jet	417	182.5
Pump pneumatic displacement	417	126+
Pump starter	417	36+
Pump throttle	417	36+
Trap thermal	236	53
Valve	137	409+
Valve steam trap	137	192+
Water closet outlet	4	395+
Water closet plural flusher	4	324+
Water closet valved bowl	4	437+
Watering trough	119	78+
Decoy ducks	43	3
Fishing	43	43.1+
Design	D22	146
Fluid pressure gauge	73	713+
Impeller		
Endless chain	416	7
Paddle wheel	416	84
Masonry implement	15	235.4+
Mortar-joint finisher	15	235.3
Oil distributor	114	234
Operated		
Acetylene generator	48	53.4
Beverage infuser	99	320
Brake	188	179
Dispenser indicator	222	51
Heater fluid	236	31
Liquid level gauge	73	305+
Motor fluid	60	495+
Pump tide motor	417	331+
Specific gravity indicator	73	451+
Switch electric	200	84R
Thermal air relief valve	236	62+
Thermal regulator	236	52
Thermometer combined	374	156
Watergate or weir	405	96+
Plural connected, bath	4	DIG. 1
Regulator		
Fluid pressure	137	505.19
Pump starter	417	36+
Pump throttle	417	36+
Skimmer glass furnace	65	206
Structure	73	322.5
Specific gravity tester	73	448+
Supported liquid separator	210	242.1
Traversing hoist	212	190+
Valve	137	409+
Vessel raising and docking	114	44+
Warship battery	114	4
Water closet design	D23	303
Water motor	60	495+
Flocculating and Deflocculating	209	5
Prevention of	210	698+
With precipitation	210	702+

	Class	Subclass
Flocculation		
Liquid separation	210	702*
Solid separation	209	5
Flocking		
Apparatus	118	308*
Coating combined	427	180*
Laminating combined	156	279
Floodgate	49	10*
Floodlights	362	
Design	D26	61*
Dirigible support	362	418*
Floor or Flooring	52	
Animal stall	119	28
Bridge	14	73
Bridges for safes	109	87
Building		
Friction or wear surface	52	177
Joists to wall	52	289
Masonry	53	391*
Mat	52	660*
Nailing beam	52	364*
Parquet	52	390*
Rotatable	52	65
Spacing sleeper	52	480
Static mold for making	249	18*
Supporting wall	52	264
Vertically adjustable	52	126.1*
Yielding sub-structure	52	433
Carpet	428	85*
Design	D 6	582*
Cleaners	D32	15*
Cleaning		
Compositions	252	88
Machinery design	D32	15*
Machines and devices	15	
Disintegrating machine	299	36*
Drying apparatus	34	237*
Endless excavating vehicle	37	7
Heat exchanger	165	56
Heated vehicle	237	43
Jack	254	11*
Lamp	D26	93*
Lighting	362	153
Mat, portable	15	215*
Mop, sponge, non-bristle broom	D32	40*
Outlet or junction box	220	3.3*
Packaging for coiled floor covering	206	389*
Parquet	428	50
Pavement	404	17*
Polishing		
Compositions	106	3*
Railway car	105	422
Auxiliary	105	375
Registers ventilation	98	102*
Scrubbing or brushing machine	D32	15*
Sectional	428	44*
Ship	114	76
Slatted covering	52	660*
Surfacing machines	51	174*
Vehicle floor mat	D12	203
Flora	428	17*
Framework for	211	
Floral		
Holders	47	41.1*
Supports	248	27.8
Design, apparel attached	D11	1*
Floss, Dental		
Holder	D28	64
Toilet kit with	132	323*
Flotation		
Liquid purifying	210	703*
Gas-liquid surface contactor	210	150
Liquid surface outlet	210	221.1
Physical separation agents	252	60*
Separating solids	209	162*
Sugar manufacturing	127	57
Flouncing Lace Goods	87	10
Flour	426	622*
Bleaching	426	253*
Manufacture by comminution	241	6*
Testing	73	169
Flouring or Flour Dusting	425	101
Flow (See Proportional, Feeding)		
Control (See valve, actuation)		
Dryer	34	54
Electrical purification of liquids	204	306
Electrolytic apparatus	204	229*
Gas filtration particulate material	55	474
Gas filtration reticulated		
Gas liquid contact porous sheet	261	100*
Gas liquid contact porous mass	261	94*
Gas liquid contact wet baffle	261	108*
Gas separator combined	55	
Heat exchange	165	32*
Pump reversible	417	315
Radiator heat exchange	165	96*
Counter nuclear		
Determine characteristic of fluid	250	336.1
Through counter tube	250	374*
Indicators		
Dispenser combined	222	40
Electric	340	606*
Fluid	116	273*
Refrigerant	62	125
Lines making, metal working	29	DIG. 17
Meters		
Electric current	324	76R*
Fluid	73	861*
Thermal	73	204.11*
Fluid direction combined	73	189
Proportional	137	98*
Recorders	346	72
Regulator	138	37*
Earth boring tool combined	175	232*
General utility type	138	37*
Impact activated valves	251	76
Responsive to element deformation	137	67
Sprinkling and spraying	239	533.1*
Valve combined	251	118*
Responsive		
Alarm	116	112
Alarm electric	340	606*
Dispenser cutoff	222	59*
Dispenser preset cutoff	222	14
Heater closed fluid	236	25R
Pump throttle valve	417	43
Switch electric	200	81.9 R
Valve	137	455*
Retarder		
Brake fluid pressure	303	84.1
Fluid in conduit	138	37*
Railway switch indication	246	109
Flower	PLT	
Curbing for flower bed	D25	38*
Holder	47	41.1*
Apparel attached	D11	1*
Corsage boutonniere personal wear	24	5*
For plant shrub vine etc	47	44*
Furniture type	D 6	403*
Vases	D11	143*
Wall mounted	D 6	556*
Wreaths and sprays	248	27.8
Imitation	428	17*
Plants	PLT	
Pots	47	66*
Design	D11	143*
Support, depended	D 6	513*
Support, shelf	D 6	556*
Preserving		
Coating or impregnating	427	4
Plant catalyst or stimulant	71	68
Flowmeter (fluid)	73	861*
Thermal	73	204.11
Flowmeter for Heat	374	29*
Flowrate	73	19.4
Determination gas content	73	19.4
Flexacillin	540	327
Flue		
Boiler	122	
Building attached	52	219
Cleaner		
Brush and broom	15	162*
Brush and broom design	D 4	
Scraper	15	242*
Collar adjustable	126	315
Connection making	29	890.145
Cover		
Design		
Expanders (See expander)		
Gas heating	432	219*
Masonry	52	245*
Mineral oil still	196	116*
Regenerative	431	170
Checker bricks	165	9.1*
Stopper	126	319
Thermolytic retorts having	202	124*
Horizontal	202	138*
Sprinkling and spraying	239	533.1*
Fluent Material Handling	141	
Fluent Tool Metal Shaping	72	54*
Fluid (See Gas; Liquid)		
Amplifier	137	803*
Bearing	384	100*
Breakwater	405	22
Calculator	235	200R*
Cleansing tool drive combined	173	57*
Clutch	192	58R
Collection from body	604	317*
Conveyer (See conveyer)		
Coupling	60	325*
Gearing combined	74	730.1*
Planetary gearing combined	475	31*
Shaft connection	464	24
Delivery		
Check controlled device	194	
Sprinkling, spraying, diffusing	239	
Track sander	291	3*
Distribution	137	
Conduit and electrical conductor combined	174	47
Cooling and or insulating electrical conductors	174	8*
Expansible chamber motor	91	
Gas separator combined	55	
Outlet nozzles	239	
Reaction motor discharge	239	265.11*
Reaction motor discharge cooling	239	127.1*
Sound muffler	181	212
Drive	60	325*
Earth boring with	175	65*
Electrifying	361	225
Floating matter barrier	405	62
Flow direction measurement	73	188*
Flow indicator	116	273*
Fluidic device		
Making	29	890.9
Fuel		
Efficiency test	73	113*
Gas analysis	73	23.2*
Illuminating testing	73	36
Liquid	44	300*
Liquid analysis	73	53*
Fuel burner		
Combustion feature	431	
Dispersing feature	239	
Fuel for heating		
Material or bodies	432	
Structures	237	
Fuel in nuclear reactors	376	151
Fuel in nuclear reactors	376	172
Fuel in nuclear reactors	376	356
Fuel in nuclear reactors	376	356
Governor	73	521*
Elevator	187	68*
Handling equipment	137	
Mounted on vehicular support	137	899*
Systems	137	561R*
Branched passage flow control	137	861*
Heat exchange	165	
Packaged	D 9	
Heater (See heat heater and heating liquid)		
Electric	392	311*
Infrared treatment of	250	432R
Jet texturizer	28	271*
Level gauges	73	290R*
Mattress	5	449*
Measuring vessels	73	426*
Mixture sensing	236	12.1*
Motor (See propeller)		
Brake	303	
Expansible chamber	91	
Manual displacement energized	49	32
Manufacture	29	888*
Meter	73	861*
Power plant	60	
Rotary kinetic	415	
Dental hardpiece	433	132
Turbine	415	
Operated		
Aircraft control	244	78
Alarm	116	109*
Apparel or garment turning	223	43
Belt and pulley control	474	
Body vibrators or massagers	128	24R*
Boiler fire extinguisher	122	506
Brake	188	151R*
Camera shutter	354	257
Changeable exhibitor	40	477*
Chuck	279	4
Closure by ambient fluid	49	21*

	Class	Subclass
Clutch operator	192	82R+
Depth gauge	73	299+
Die shaping	72	54+
Dumping vehicles	298	22R
Earthenware apparatus	425	
Explosive arming devices	102	222
Fluid scatterer or sprayer	239	214+
Governor	73	521+
Governor modifier	73	521+
Hat shaping	223	13
Impacting device	173	90+
Indicator	116	264+
Linear hoist	212	138
Lubricators	184	14+
Machine elements	74	
Planetary gearing controls	475	31+
Milling machine work feed	409	170
Mortar mixers	366	10+
Process	366	3+
Motors temperature controlled	236	79+
Overhead hoist	212	213
Photographic printing	355	91+
Pipe and tube cleaner	15	104.3
Pipe cleaners	131	244
Piston packing	277	
Pneumatic fire alarm	116	34R
Power hammer and presses	72	407
Press	100	269R+
Pressure gauge	73	700+
Puller or pusher assembler or disassembler	29	252
Pushing and pulling implements	254	93R
Railway car stop	104	256
Railway switches and signals	246	
Railway turntable	104	37
Rate of climb meter	73	179+
Reciprocating cutter	83	639.1
Rod or piston packing	277	
Rotary hoist	212	250
Sausage stuffer	17	39
Sawmill set works	83	726
Seal with bearing	384	131
Ship steering	114	150+
Ships log	73	181+
Sound record molding device	425	385
Sound record molding device	425	406+
Sprayer	239	237+
Steering gear	180	79+
Switch	200	81R+
Syringe	604	131+
Testing device	73	37+
Thermometer	374	201+
Thermostat	60	530+
Tool turret	29	42
Toy	446	176+
Track sander dispenser	291	24
Oscillator	239	589.1
Trolley retriever	191	85+
Trolley stand	191	67
Valve responsive to flow	137	455+
Valve responsive to pressure	362	384
Vehicle head lamp	362	37+
Well tubing cutter	166	55+
Wire placing apparatus	254	134.4
Work holder for grinder	51	233
Pillow	5	441
Pressure gauges	73	700+
Pressure regulator (See pressure)	137	505+
Proportioning	236	12.1+
Pumps	417	
Ratio maintenance	236	12.1+
Reaction surfaces, ie impellers	416	
Regulator and control		
Volume or rate of flow meters combined	73	199
Samplers	73	863+
Screen	110	179
Shark screen	405	22
Sprinkling, spraying, diffusing	239	
Storage in earth cavity	405	53+
Transmission (See transmission)		
Treatment		
Bleaching and dyeing	8	
Coating implement with material supply	401	
Drying and gas contact with solid	34	
Food apparatus	99	516+
Food, butchering process	17	51
Gas and liquid contact	261	
Gas separation	55	
Metal	148	
Shoe soles	12	41.3
Textile fabric apparatus	68	
Textile fibers	19	66R+
Thread finishing with	28	217+
Ultraviolet treatment of	250	432R
Vortex amplifier	137	812+
Vortex generator	137	808+
Fluke		
Anchor	114	301+
Anchor trippers	114	210
Flume	405	119+
Gates	405	87+
Screen	210	154+
Comminuting	210	173+
Fluoranthene (See Aromatic Hydrocarbon)	585	400+
Fluorene (See Aromatic Hydrocarbon)	585	400+
Fluorenone	568	326
Fluorescein	549	223
Fluorescent		
Cathode ray screen	313	467
Cathode ray tube	313	467+
Coating	427	157
Composition		
Inorganic	[illegible]	301.6 R
Mineral oil	208	12
Organic	252	301.16
Radioactive	252	625+
Devices and applications	250	462.1
Electric light	313	484+
Ballast	336	155+
System	315	
Electric lights and electronic tubes	313	495+
Illuminating devices with	362	217+
Screens	250	483.1
Signs	40	542+
Fluorides Inorganic	423	462+
Binary	423	489
Fluorimeter		
Chemical analysis, apparatus	422	82.8
Fluorine	423	500
Acids	423	481
Halocarbon containing	570	123+
Fluorocarbons, Eg, Teflon, Kel-f		
And memory plastics, pipe joints	285	909
Insulated cable and conductors	174	110FC
Plastic article forming, resin	264	127
Fluoroscope and Fluorescent	250	458.1
Article inspection	250	458.1
Fluorescent applications	250	458.1
Fluoroscopic equipment	D24	2
Tables	378	38
Fluosilicates	423	342+
Fluosilicic Acid	423	341
Flush Tank		
Liquid level control	137	409+
Water closet	4	353+
Bowl combined	4	300+
Urinal	4	353+
Flusher		
Nozzle cleaner	239	106+
Sewerage	137	240
Siphon including automatic	137	132+
Street	239	146+
Valve	251	15+
Water closet	4	300+
Design	D23	295+
Fluspirilene, in Drug	514	278
Flute	84	384
Fluter	223	28+
Flux		
Bituminous material	106	279+
Ceramic	106	313
Earth boring combined	175	13
Metallurgical	75	303+
Natural resin	106	240
Protein containing	106	161
Casein	106	147
Gelatine or glue	106	136
Prolamine	106	153
Soldering feeders for	228	33+
Solid metal treating	148	23+
Synthetic resin or natural rubber (See class 523, 524)		
Fluxmeter		
Magnetic flux	324	244+
Fly		
Brush	416	501
Closer lasting tool	12	113
Fishing	43	42.24+
Design	D22	125+
Holders for fishhooks, flies	43	57.1+
Net	54	81
Paper box making	493	52+
Swatter	43	137
Design	D22	124
Textile spinning	57	96
Trap	43	122
Fly Ash	106	DIG. 1
Processes of using	264	DIG. 49
Stock material	428	406
Flying (See Aircraft)		
Blind		
Aircraft controls	244	75R+
Traffic control systems	340	947+
Machine	244	
Design	D12	319+
Design toy	273	362+
Propeller toys	446	36+
Target	273	362+
Design	D22	114+
Drone	D12	16.1
Trainers	434	30+
Flying Toel		
Cutting	83	284+
Wire tool	83	307.1+
Metal deforming	72	184+
Flypaper	43	114+
Catching implements	43	136
Packages	206	447
Flytraps	43	107+
Design	D22	122
Flywheels		
Fan combined	416	60
Fluid	60	330+
Impellers combined	416	60
Machine elements	74	572+
Occupant propelled vehicle power storing	280	217
Sewing machine abraiding attachment	51	257
Vehicle drive combined	180	165
With planetary gearing	475	267+
Foam	252	307
Breaking		
Distillation apparatus	202	264
Distillation process combined	203	20
Processes	252	321
Coating implement with material supply	401	44+
Control	435	812*
Fire extinguishing	252	3
Stabilizing agent containing	252	8.5
Froth flotation agents	252	61
Gas & liquid contact apparatus	261	DIG. 26
Glass making	65	22
Laminate	428	304.4+
In situ foaming	156	77+
Metallic receptacles collection	220	902*
Plastic molding	264	41+
Producing compositions	252	350
Protective coating or zone	252	382
Separating gases from	55	178
Processes	55	87
Fob	D11	79+
Focusing		
Camera	354	195.1+
Automatic	354	400+
Hood	354	287
Flashlight	362	187
Focus coil and cathode ray tube	313	442
Focus coil per se	335	213+
Photocell controlled	250	201.2+
In dynamic information storage and retrieval	369	44.23
Projector	362	317+
Adjustable light	362	285+
X ray tube combined	378	138
Fodder	426	636
Fog	252	305
Combustion	126	59.5
Dispelling appliances	98	1
By spraying	239	2.1
Horns	116	137R+
Preventing compositions	106	13
Foil (See Sheet)		
Dental filling	433	227+
Fencing	272	98
Laminate		
Manufacture	29	17.1+
Metal	428	606+
Folder (See Creaser)		
Apparel apparatus	223	37+

	Class	Subclass
Collar cuff bosom making	223	3
Collar, cuff or neckband ironers	223	52.1+
Plaiting etc with fold guides	223	34
Plaiting fluting shirring with cross creasing	223	29
Boot and shoe making		
Lasting	12	12+
Uppers	12	55
Cigar or cigarette tip or mouthpiece forming	131	89+
Folder carried indicia	40	359
Paper article making		
Bags, envelopes	493	243+
Boxes	493	162+
Sheet material associating or folding		
Associating and folding	270	32+
Associating folding and rotary printing combined	270	4+
Folding and rotary printing	493	321+
Wrapping folding and or printing combined	53	116+
Sheet metal can seam	413	69+
Sheet metal seaming	29	243.5+
Folding	493	405+
Boats	114	353
Chairs	297	16+
Tables	108	115+
Foliage		
Artificial	428	17+
Design	D11	117+
Folic Acid	544	261
Follower		
Ammunition dispenser (See magazine)	42	49.1+
Cabinet		
Phonograph record holder	312	9+
Cam	74	569
Cooking apparatus combined	99	349+
Dispenser combined		
Container	222	386+
Insertable cartridge	222	326+
Fountain pen	401	141+
Lubricator pump	184	37
Mattress filling apparatus	53	255+
Metallic receptacle	220	93
Followers and partitions	220	529+
Partition follower	220	559+
Pipe joint piston type	285	302
Rack card or sheet	211	51+
Self loading material handler	414	506
Sheet retainer with releasable keeper	402	60+
Smoking device	131	181
Trunk	190	36
Wooden		
Barrel	217	86
Box	217	64
Follow-up Mechanism		
Aircraft control	244	76R+
Controlled gearing	74	388R+
Fluid pressure brake valve	303	54+
Gearing	74	388R+
Recorder drive	346	31+
Servometer fluid	91	358R+
Ship steering	114	144R+
Font		
Sorting	199	40+
Typewriter embossing	400	127+
Typewriter, penetrating	400	135+
Food (See Type)	426	
Animal foodstuffs	D 1	
Animal mastication aids	D30	199
Apparatus	99	
Canning	426	392+
Filling receptacles	141	
Cereal pupping	99	323.4
Conductivity control	99	DIG. 11
Cooking apparatus	99	324+
Dairy food treatment	99	452
Dehydration	426	443+
Design	D 1	
Edible containers	D 1	
Edible laminated product making	99	450.1
Enclosed modified atmosphere treating	99	467
Food mixer-grinder-blenders	D 7	368+
Fruit and vegetable peelers	D 7	693
Hand tools for food prerarration	D 7	669+
Induction heating	99	DIG. 14
Inedible stick or holder &	D 1	105
Live stock	426	635+
Means to treat food	99	485+
Non-cooking heat treatment	99	483
Non-protein nitrogen	426	69
Preparation or dispensing machines	D 7	
Preparing and treating (See type) Apparatus	99	
Preserving	426	
Processes, compositions & products	426	
Equipment design	D 7	368+
Storage receptacle, household	D 7	601+
Strip or stick form	D 1	
Temperature responsive	99	DIG. 1
Vinegar making	99	323.12
Foot		
Bandages	128	165+
Bath	D24	38
Closure by foot pedal	220	262
Controlled dibbling apparatus	111	98
Electric applicator	128	795
Flipper	441	64
Guard railway track	238	379+
Levers pedals	74	594.4
Measuring devices	33	3R
Monitor radioactivity	378	38
Miscellaneous	378	38
Scintillation type	250	458.1
Operated		
Anvil vises forging	D21	1+
Closure bolt releasers	292	255
Control lever and linkage systems	74	469+
Cutting tool	30	275
Cutting tool plural blade	30	297
Dispenser	222	179
Earthworking tool lift	172	495+
Gang punching machine	83	620+
Runner vehicle	280	12.1+
Sheet punching machine	83	613+
Ship steering apparatus	114	153
Vehicle steering apparatus	280	87.1
Wheeled vehicle	280	200+
Orthopedics	128	80R+
Piece		
Dustpan	15	257.5
Fork and shovel hand	294	60
Posts for skates	280	11.17
Resilient machinery support	248	615+
Rest (See --, support)	297	423+
Chair reversible back	297	73+
Chair with folding	297	30
Closet	4	254
Control lever system type	74	564
Design	D 6	501
Land vehicle body	296	75
Land vehicle combined	280	291
Piano	84	232
Rocker with	297	271
Substitute	297	428
Support		
Boat	114	363
Life preserver with	441	80+
Skate joined runner & support	280	11.15
Skate resiliently mounted	280	11.14
Surgical table	269	
Supporter	36	71
Warmer		
Heat radiator	237	77
Stove	126	204
Surgical body wear	128	382+
Football	273	65R
Electric scoreboard	340	323R
Game	273	55R
Game board	D21	29
Scoreboard	116	222+
Shoes	36	128
Simulated game	273	94
Tackling dummy	273	55R
Teaching	434	251
Footboard		
Bed	5	53.1+
Foot or leg support	5	443+
Motor vehicle body	180	90.6
Railway rolling stock	105	460
Footholds		
Building with	52	184+
Friction surface	52	177+
Cane	135	70
Crutch	135	70
Ladder terminals	182	108+
Pavement	404	19+
Stair covers	428	85+
Walking aids with tips	135	77+
Footing (See Bases; Foundation)		
Footlights		
Cleaning type	15	238+
Footwear	36	
Design, general	D 2	264+
Mens	D 2	308+
Stockings & socks	D 2	329+
Womens	D 2	282+
Foraminous		
Cabinet wall structure	312	213
Force Measuring	73	
Coin controlled devices	194	
Electric	324	
Force Pumps	4	255+
Forceps		
Dental	433	159
Railway traction cable	104	217
Surgical	606	205+
Design	D24	27
Forcer		
Closure applying die	53	341+
Sheet metal die shaping	72	54+
Forehearth	266	166
Forestry	47	
Hand tools design	D 8	1+
Forge	110	195
Tuyeres	110	182.6
Water cooled	122	6.7
Forging	72	
Machines with other tools	29	34R
Metal working with	29	DIG. 18
Nuts and washers	10	76R+
Piston rings	29	888.7+
Processes	72	372+
Wrought nails	10	55+
Fork (See Shovel)		
Bicycle type	280	276+
Compound tool with culinary fork	7	112
Compound tool with pitch fork	7	115
Cutlery	30	322+
Design	D 7	653+
Guard	30	323
Hand	294	55.5
Handles	D 8	DIG. 4
Material handling		
Blanks and processes for making	76	111
Cooking spit or impaler	99	419
Excavating scoops	37	120+
Hand	294	55.5+
Hayfork	294	120+
Hayfork type grapple	294	86.4+
Inclined elevator or hoist	414	595+
Tilting	414	598+
Making dies	72	470+
Railway mail delivery	258	21+
Railway mail delivery support	258	11+
Single throw lever fulcrumed	254	131.5
Tedder	56	374
Vertically swinging	414	685+
Table (See cutlery)	30	322+
Blanks & processes for making	76	105
Combined tool	7	112+
Combined with knife	30	148
Dies for making	72	470+
With ejector	30	129
With material holder	30	137
Tuning or musical		
Music instrument	84	409
Tuning	84	457
Wheel occupant propelled vehicle		
Front	280	279+
Rear	280	288
Rear yielding	280	284+
Forklift Truck	414	529
Ramp design	D12	
Formaldehyde	568	448
Dehydrating	203	17
Synthetic resin (See synthetic resin or natural rubber resin or natural rubber)		
Formamide	564	215
Formates		
Alkali forming metal	562	609
Cellulose	536	67
Esters	560	231+
Formazans	534	652
Former (See Die; Molding; Shaping)		
Formic Acid	562	609
Forming		
Metal by plastic shaping	72	
Fluent tool or energy field	72	54+

	Class	Subclass
Forms		
Display	223	66+
Design	D20	10+
Dress	223	68
In situ construction engineering or building type	249	1+
Forte Devices (See Piano)		
Fortune Telling Devices	273	161
Coin controlled	194	
Playing cards	D21	42+
Toys	D21	240
Foundation (See Bases)		
Bee comb	449	44+
Building	52	292+
Hair	132	54+
Marine	405	195+
Ballasted	405	207+
Piles	405	231+
Road bed	404	27+
Founding	164	
Foundry Apparatus	164	
Foundry Mold or Mold Core Binder	523	139+
Fountain		
Beverage infuser	99	313+
Gravity feed	99	310+
Comb	132	112+
Design	D23	201
Drinking	D 7	304
Stock watering	D30	121+
Drinking	239	24+
Design	D 7	304
Inkwell (See inkwell)	222	577
Machine		
Bed and platen oscillating printing	101	315
Bed and platen reciprocating printing	101	321
Dampener planographic	101	148
Inker	101	364+
Inker multicolor	101	210
Inker roller	101	363
Printing members and inker	101	330+
Pen (See fountain pen)		
Sprinkling	239	17+
Stencil addressing	101	48+
Stock watering	D30	121+
Stock watering	119	74+
Syringe	604	131+
Gravity feed from plural reservoirs	604	80
Fountain Pen (See Pens)	401	
Ball point	401	209+
Follower fluid	401	142
Bifurcate nib type	401	221+
Ink retainer attachment at tool	401	252+
Filling	141	21+
Filling	141	18+
Projectable and retractable tool	401	99+
Rupturable cartridge	401	132+
Sign or picture carrying	40	334+
Stylographic	401	258+
Fourdrinier Machines	162	348+
Fowl	17	11+
Brooders	119	31+
Butchering	17	11+
Care and handling design	D30	
Confining and housing devices	119	21+
Design	D30	108+
Feeding devices	119	51.1+
Foods	426	635
Medicines	424	
Supports and shackles	17	44.1
Watering devices	119	72+
Design	D30	121+
Fowler Flap for Aircraft	244	216
Fracture Apparatus Surgical	128	83+
Frame	52	
Abrading machine	51	166R+
Agricultural implement	172	776
Aircraft		
Airfoil	244	123+
Airship hull	244	125
Fuselage	244	119+
Apparel		
Armpit shield	2	57
Hat	2	180
Apparel apparatus		
Dress coat or skirt stretching	223	69
Hat frame making	223	8
Tie	223	65
Trousers stretching	223	63
Bag holder	248	99+
Bed	5	
Bee		
Comb	449	35+
Hive	449	3+
Camera	354	161
Canopy	135	101+
Car roof	52	45+
Caster	16	31R+
Clock	368	88
Closures partitions panels	160	371+
Awning	160	76
Mount or support	160	369
Nonrigid	160	354
Plural	160	353
Roll type	160	239+
Door	49	504+
Metal	52	782+
Drill press	408	234+
Drying		
Curtain	38	102.1+
Electric lamp	314	130+
Arc	314	130+
Fabric cleaner	15	233
Fabric stretching	38	102.1+
Fastening savings box	232	6
Fireplace	126	500
Fishing reel	242	309+
For building	52	648
For expansible chamber device	92	161
Hair foundation	132	54
Hand and hoistline implements	294	67.1+
Brick carriers	294	63.1+
Grapple	294	113+
Vacuum	294	65
Harvester	56	
Headwear receptacle	206	9
Internal combustion engine	123	195R
Land vehicle		
Body structure	296	187+
Body supporting	280	781+
Design	D12	159
Drop frame convertible to	280	7.11
Dropped body	280	2
Endless track carried by	305	16+
Equalized	280	104+
Roller bearing	280	105
Velocipede	280	281.1+
Velocipede steered	280	274+
Leather making work holder	69	19
Light shade or bowl	362	433+
Luggage	190	121+
Metallic receptacle wall	220	668
Mirror or reflector	52	
Mounted motor	180	58+
Music		
Hammer action	84	250
Key	84	432
Piano	84	184
Open work	52	633+
Panel	52	474+
Edging	428	21+
Sectional	52	455+
Pavement light or lens	404	22+
Picture	40	152+
Picture frame molding	D25	119+
Planting drill	111	52+
Portal with building structure	52	204+
Printing	355	122+
Quilting	112	119
Radiator	165	149
Railway		
Bogie side	105	206.1+
Car	105	396+
Locomotive	105	172+
Scroll saw	83	776+
Sewing	112	258+
Sheet drying apparatus	34	163
Sifting machine	209	404+
Sign or bulletin board	D19	52
Slate	434	422
Spreader	294	81.1
Table	248	163.1+
Tent	135	101+
Textile		
Hand loom	139	34
Pile tufting tubes	139	10
Textile thread	28	149+
Trolley pole	191	65
Trunk	190	24
Truss surgical	128	99.1+
Typewriter	400	691+
Ventilating register	98	114
Wall decoration	D 6	300+
Window	49	504+
Wireworking	140	92.1
Woodworking		
Bit	408	53
Clamps	269	
Handsaw	30	166.3+
Match dipping	144	65
Frangible		
Attachment for metallic receptacle	220	89.1+
Barrel bung	217	111
Bottle or jar cap	215	250+
Building structures	52	98+
Cartridge fountain pen	401	132+
Container opening	206	601+
Dispenser outlet	222	542
Electric signal box element	340	303
Element in pipe joint	285	3+
Feature		
Static mold	249	61
Fluid handling means	137	797
Locks		
Key bit	70	410
Key operating mechanism	70	422
Material used in glass process	65	23
Metallic receptacle closure	220	265+
Multiple shoe brake connection	188	241
Railway switch element	246	289
Railway train pipe closure	246	199
Derailment operated type	246	172
Valve controlling element	137	68.1+
Frankfurter (See Sausage)		
Packaging	53	DIG. 1
Fraternal Insignia	D11	95+
Fraud Preventor or Detector		
Check controlled apparatus	194	302+
Combined	194	202+
Coating or impregnating	427	7+
Electrophotographic copier	355	201
Printed matter	283	72+
Stock material	428	916+
Transfer or decalcomania	428	915+
Free Fall Item Feeding	209	908+
Free Radical, Hydrocarbon Synthesis Involving	585	942+
Free Wheeling Clutches	192	41R+
Freeze-out Trap	62	55.5
Freezer and Freezing (See Congelation)		
Flowable material	62	340+
Automatic	62	135+
Process	62	66+
Ice cream machine design	D15	82
Pressure compensators	138	27+
For internal combustion engines	123	41.5
Refrigerator-freezer design	D15	81+
Safety systems for fluid handling	137	59+
Work holder using	269	7
Freight Accomodation on Freight Carrier	410	
Lashing	410	96+
Anchor	410	101+
Load brace	410	121+
Bar wall-to-wall	410	143+
Panel wall-to-lading	410	127+
Panel wall-to-wall	410	129+
Retainer	410	77+
Yieldable	410	117+
Particular article	410	2+
Automobile shipment	410	4+
Grouped	410	31+
Massive	410	44
Freight Carrier		
Freight accomodating construction	410	
Land vehicle	280	
Body	296	
Rail car	105	355+
Framing	105	404+
French Curves	33	561.2+
French Dressing	426	615+
French Fryers	99	403+
Freon T M	570	134
Frequency		
Amplitude study mechanical	73	579+
Analyzer	324	77R
Automatic control		
Gain, level, volume	455	234
Plural receivers	455	136
System radio	455	71
Television receiver	358	194.1
Transceiver	455	119

	Class	Subclass
Transmitter	455	313*
Changers	310	127*
Conversion systems	363	157*
Converters	310	
Systems	363	157*
Demodulators	329	315*
Divider	363	157*
Electronic tube type	328	15
Electronic tube type	328	25
Dividers oscillator	331	51
Group frequency radio signaling	455	
Measuring	324	78R*
Absorption type	324	81
Heterodyne	324	79R
Wave meter	250	250
Modulators	332	117*
Multipliers oscillator	331	53
Radio signaling	455	
Response modification	358	904*
Speech range compression or expansion in telephone system	381	29*
Synthesis	328	14
Fret Saws	30	513*
Frets for Fingerboards of Stringed Instruments	84	314R
Control	84	DIG. 3
Friction		
Clutch	192	
Brake position adjuster combined	188	199
Gearing	74	190*
Planetary	475	183*
Single speed	74	206
Generators		
Boiler heating	122	26
Electric	310	310
Heater	126	247
Igniting mass or surface combined with fuel	44	506*
Producing compositions	106	36
Removable closure retained by	220	352
Tape	428	343*
Coated on both sides	427	208
Package	206	411
Test		
Between solid bodies	73	9
Liquid viscosity	73	55
Torque	73	862.12
Welding apparatus	228	2
Nonmetallic	156	580.1
Methods	156	73.1*
Sonic or ultrasonic	156	580.1
Welding process, nonmetallic	156	73.5
Sonic or ultrasonic	156	73.1
Fringe		
Apparel trimming	2	244
Making on looms	139	118*
Misc. manufacture	28	145*
Of sewn strands	112	409
Design	D 5	7*
On web or sheet	428	115*
Sewing machine forming	112	64
Trimming design	D 5	
Turning guide for sewing machines	112	149
Woven fabric	139	385
Frisbee T M	446	46*
Frisket	101	421
Frits, Glass Compositions	501	14*
Frog		
Flower stem holder	47	41.13
Design	D11	147
Railway	246	454*
Continuous rail	246	275*
Frog obviating switches	246	417*
Switch connected	246	382*
Switch connected vehicle actuated	246	274
Trolley transfer	104	105
Textile weaving	139	346
Frost		
Boards	5	54
Boiler	122	497*
Fireplace	126	544*
Design	D23	343*
Furnace	110	172
Upending bedstead case		
Panel	5	160
Wing	5	161
Winter or storm		
Land vehicle	296	77.1*
Railway car	105	353
Frost Indicator for Refrigerator	62	128
Frost Preventing		
Composition	252	70
Coating	106	13
Plants and fruit	47	2
Refrigerator	62	272*
Automatic	62	150*
Process	62	80*
Frosting Lamp Bulbs	156	625*
Froth	252	307
Flotation	209	163*
Agents	252	61
Copper	209	901*
Phosphate	209	902*
Preventing	252	321
Fruit	426	616*
Apparatus for treating	99	467
Cleaning		
Brushing or wiping apparatus	15	3.1*
Fluid treatment apparatus	134	
Processes	426	478*
Clipper	30	123.5*
Coffee substitutes from	426	594*
Corer	99	547*
Design	D 7	693
Gatherer	56	328.1*
Design	D 8	13
Halving cutters	83	
Juice extractor		
Comminuting citrus fruits	99	495
Design	D 7	665*
Interfitting cup type press	100	213
Presses	100	104*
Peelers or parers	99	588*
Design	D 7	693
Plants	PLT	33*
Preservation	426	321*
Canning	426	392
Coating	426	289*
Dehydration	426	471*
Refrigeration	426	524
Seeding and stoning	99	547*
Sorting machines	209	509*
Stemmer	99	635*
Frying Pan		
Deep fat	99	403*
Heat transfer feature	126	373*
Structure	220	
Surface griddles	99	422*
Fterafur	544	313
Fuchsin Acid	552	112
Fuchsine	552	114*
Fuel	44	
Bound animal blood or animal manure containing	44	552
Bound sewage containing	44	552
Boxes	126	283
Can	D23	202*
Cell	429	12
Active material electrode	429	27*
Automatic control means	429	22*
Catalytic electrode structure	429	40*
Cell electrical generator	429	12*
Chemically specified electrode	429	46
Coal slurries	44	280*
Design solid	D13	100
Mineral oil	208	15
Feed and supply systems	137	
Engine combined generally	60	
Engine internal combustion combined	123	495*
Fuel injection	123	445
Rotary piston	123	200*
Liquid fuel nozzle generally	239	
Solid fuel burners combined	110	101R*
With combustion feature	431	
Gas		
Distribution	48	190*
Generator	48	61*
Gaseous	48	
Gelled liquid	44	265*
Heat exchange feature	429	26*
High energy compounds	149	120*
Igniting devices & fuel	44	
Injector combined with rotary piston engine	123	200*
Liquid	44	300*
Acyclic peroxy compound containing	44	322
Liquid hydrocarbon monomer mixtures	585	1*
Aldehyde or ketone containing	44	437*
Azo compound containing	44	328
Carbohydrate containing	44	313
Carboxamide containing	44	418*
Explosive or thermic containing	149	1
Free metal or alloy containing	44	321
Halohydrocarbon containing	44	456
Heavy metal containing except lead	44	354*
Heterocyclic compound containing	44	329*
Inorganic compound containing	44	457*
Material, actinide or radioactive inorganic compound	423	249*
Nitrate or nitrite ester containing	44	323*
Nitrile or isonitrile containing	44	384
Nitro compound containing	44	413*
Organic amine containing	44	412*
Organic carboxylate containing	44	388*
Organic oxygen compounds containing	44	436*
Organic sulfate containing	44	369
Organic sulfonate containing	44	370*
Organic sulfur or organic phosphorus containing	44	435*
Organo lead compounds containing	44	454*
Phosphorus organic acids or esters containing	44	375*
Quinone containing	44	312
Silicon containing	44	320
Solid hydrocarbon polymer containing	44	459
Solidifying	44	265*
Urea or thiourea containing	44	417
Log	44	535
Mineral oil	208	15*
Nuclear	376	
Alloys for actinide groups	420	1*
Blanket arrangements	376	172
Bundle or pack	376	434
By-product treatment	376	189
Canned	376	412
Carrier, insertable	376	342
Cladding	376	457
Coated or impregnated	376	414
Complementary segments	376	429
Compositions	252	626*
Concentric layers	376	431
Coolant included	376	424
Core arrangements	376	348
Electrolytic production	204	1.5
In fission plenum	376	412
Particles	376	411
Reprocessing	423	249*
Handling	376	260
Heat treatment	148	132
Layered	376	416
Leak detecting	376	250
Warning structure	376	450
Loading and unloading	376	264
Manufacturing		
Chemical milling	156	625*
Chemical, misc	156	67
Coating	427	6*
Etching	156	625*
Irradiation or conversion	376	156
Laminating	156	67
Metal stock heat treated	148	401*
Metallurgical production	75	393*
Metallurgical production	420	1*
Powder metallurgy	419	
Material, actenide or radioactive		
X-ref patents	376	901*
Alloy	376	422
Organic compounds	534	10*
Mechanical spacing means or securing	376	438
Molten	376	359
Projections, prongs fins	376	454
Metal alloys	420	1*
Seal for	376	451
Segmented	376	426
Non-metal	264	21*
X-art	376	903
Sintered process	419	
Sintered stock	75	228*
Slurry, associated components	376	356
Slurry, conversion process	376	171
Spacing means or securing	376	438
Waste disposal	252	626*
Nuclear device making	29	DIG. 9
Plural cells	429	18*
Process of operating	429	13*
Pumps	415	

	Class	Subclass
Pump	417	
Service station pump	D15	9.1+
Refrigerant utilized as	62	7
Service station pump	D15	9.1+
Solid and liquid	44	
Solid compositions with binder and additional component	44	551+
Solid electrolyte	429	30+
Solid with binders	44	551+
With binders	44	551+
Spread out into a film	261	DIG. 25
Testing consumption	73	113+
Treatment, solid fuel furnace	110	218+
Fulcrum		
Brake beam type	188	231+
Full Stroke Mechanism	74	17.5
Dispensers		
Pump type	222	375
Full Wave Gas Rectifier	313	581
High vacuum rectifier	313	306
Fuller's Earth		
Adsorbent	502	232+
Carbon combined	502	180
Fulling	26	19+
Hide apparatus	69	33+
Inorganic explosive or	149	33+
Thermic composition containing	149	33+
Fulminating Igniter	431	269+
Fumaric Acid	562	595
Fume Arrester		
Consumable electrode discharge devices	314	26+
Gas separation	55	
Hoods	98	115.1
Design	D23	371+
Metallurgical apparatus	266	144+
Textile fluid treating	68	209
Fume Generator	422	305+
Fumigants	424	40+
Fumigation	422	
Animal	119	160
Food	426	312+
Apparatus	99	467
Soils	47	58
Vermin destroying	43	125+
Fungicides		
Animal dips and sprays	424	
Cyanogen compounds	424	607+
Fertilizers containing	71	3+
Fumigants	424	40+
Inorganic	424	607+
Oil emulsions	514	938*
Organic	514	1+
Suspending agents & spreaders	514	769+
Fungistatic		
Compositions	424	
Funnel	141	331+
Chemistry lab apparatus	422	99
Dispenser with funnel type outlet	222	460+
Dispenser with separable	141	343
Household article design	D 7	700
Liquid level or depth gage having	73	294
Milk receptacles with funnel filler	232	43
Supports for	248	94
Fur (See Pelts)		
Artificial	428	85+
Cape design	D 2	182
Coat, design	D 2	198+
Coat design hip length or above	D 2	188
Collar	D 2	602+
Cutting	83	915*
Fluid treatment	8	94.14
Dyeing	8	404+
Garments	2	65+
Design	D 2	
Leather manufactures derived from furs and related processes	69	23+
Neckwear design	D 2	601+
Receptacles for	206	11
Scarf or muff hangers	223	97
Sewing machines	112	16+
Treating apparatus	69	23+
Furan	549	505
Furfural	549	483
Furfuramide	266	144
Furling	114	104+
Furnace (See Heat)	110	
Absorber with manually adjustable shading means	126	DIG. 1
Arc	373	60+
Ash receiving and handling devices	110	165R+
Automatic temperature control	236	
Bessemer converter	266	243+
Boiler controlled		
Air or steam feed	110	188
Fuel feeder	110	103
Stoker	110	186+
Car type	432	241
Charge conveyor within	414	150+
Charging and discharging	414	147+
Distillation apparatus	202	
Metal charge	75	303+
Shaped	428	576
Checker brick	165	9.1+
Chemical reaction	422	198+
Coke	202	215+
Collector includes overlapping roof shingles or tiles	126	DIG. 2
Cremating	110	194
Cupola	432	95+
Metallurgical	266	197+
Metallurgical, X-art	266	900*
Design	D23	329
Distilling and combustible gas generating		
Burning combined	110	229+
Gas generators	48	61+
Mineral oil vaporizing	208	347+
Stills	202	81+
Doors	110	173R+
Draft regulators	110	147+
Electric	373	
Arc furnace	373	60+
Electron beam	373	10+
Zone melting	373	17
Glass furnaces	373	27+
Glow discharge	373	26
Induction furnaces	373	138+
Channel	373	162
Core-type	373	159
Coreless	373	151
Lining	373	164+
Making of lining	264	30+
Zone melting	373	139
Pressure and vacuum furnace	373	60+
Arc with internal atmosphere control	373	68
Furnace body detail	373	71
Resistance furnace	373	109+
Wall cooled furnace		
Arc furnace device	373	75+
Induction core-type	373	165
Induction coreless	373	158
Induction furnace device	373	138+
Resistance furnace device	373	113+
With condensers	373	56+
Zone melting	373	17+
Electron beam	373	10+
Zone melting	373	17
Fluid fuel burner in	431	159+
Solid fuel combined	110	260+
Fronts	110	172
Fuel feeders	110	101R+
Gas scrubbers	261	DIG. 9
Gases		
Combustion air heating	110	303
Heating boiler feed water	122	420+
Power plant water heating	60	669
Glass		
Annealing	65	349+
Electric	373	27+
Melting	432	195+
Melting and refining	65	347
Pot type	432	156
Incinerator	110	235+
Liquid heating or evaporating		
Air heater combined	126	101
Concentrators	159	
Cooking stove combined	126	
Fireplace combined	126	513+
Open type	126	344+
Pressure generating boilers	122	
Melting	266	200+
Metallurgical		
Apparatus	266	
Processes	75	
Miscellaneous heating	432	
Nuclear	376	366
Open hearth	432	159+
Pots	432	262+
Powdered fuel burning		
Fluid fuel combined	110	260+
Fuel feeders	110	104R+
Furnace structure	110	263+
Puddling	266	203
Recuperator	432	179
Regenerative	432	180
Sawdust refuse and wet fuel	110	235+
Feeders	110	102
Stoves	126	222+
Shaft	432	95+
Metallurgy	266	197+
Smokestacks	110	184+
Solid fuel burning	110	
Stoves	126	
Spark and smoke conductors	110	145+
Spark arresters	110	119+
Stokers	241	600*
Stoves & furnaces	126	
Tuyeres	110	182.5+
Wall manufacture and repair	264	30
Furniture		
Beds	5	
Cabinets	312	
Chairs and seats	297	
Design	D 6	
Doll or toy	446	479+
Design	D21	121
Dry closet combined	4	465+
Education features combined	434	432
Fire escape combined	182	35+
Illuminator combined	362	127+
Insect trap combined	43	109
Music cabinet	84	DIG. 17
Polish	106	3+
Protector or cover	D 6	610+
Racks and stands for	211	27
Ship furniture as life raft	441	125+
Ships	114	188+
Store design	D 6	
Tables	108	
Toy	D21	121
Furoic Acid	549	484+
Furring (See Studding)	52	474+
Settable material backer	52	344+
Furrower	172	
Furrow followers	280	776
Irrigation dam former	172	233+
Planting drill	111	149+
Roller combined	172	176
Furyl Compounds	549	429+
Azo compounds	534	751+
Fuse		
Ammunition and explosive device	102	200+
Blasting	102	200+
Cordeau detonant	102	275.1+
Mine	102	424+
Mine marine type	102	416+
Combined with fuel	44	519
Condition, electric signal	340	638+
Cutter blasting	86	22
Electric	D13	161
Box	D13	178
Connector combined	337	187+
Thermal	337	401+
Thermal current	337	142
Electrophotographic fixation	355	282+
Fusible elements	169	42
Building structures combined	52	232
Making	493	948*
Measuring and testing timing apparatus	73	5
Operated		
Alarm	116	106
Safety devices for fire extinguishers	122	504.3
Safety devices for liquid heaters and vaporizers	122	504.1
Stove and furnace dampers	126	287.5
Proximity	102	211+
Puller tool	81	3.8
Setters, ordnance	89	6+
Fused Cell Formation	435	172.2
X-art collection	935	93*
Fusee	102	358
Fuselage		
Aircraft construction	244	119+
Lifting type	244	36
Fusible		
Boiler safety control	122	504.1
Fire extinguisher	122	504.3
Bolt or nut, in bolt or nut to substructure lock	411	171

	Class	Subclass
Connections	169	42
Metal, in bolt to nut lock	411	257
Plugs for automatic fire sprinkler heads	169	37+
Receptacle attachment	220	89.3
Sensor signal system	340	590+
Stove damper release	126	287.5
Switch	337	401+
Thermal current element	200	
Thermal current heater	337	182+
Thermometer	374	106
Valve operator	137	72+
Valves and controllers	222	54
Fire extinguisher	169	19+
Ventilator cowl release	98	86
Fusion (See Melting)		
Bonding apparatus	228	
Coating combined	427	375
Separation combined	422	285+
Sulphur	423	567R
Fusion Bonding		
Glass preforms of	65	36+
Apparatus	65	152+
Fusion Nuclear Reactors	376	100
G Acid	562	80
Gable, Roof	52	90+
Roof end	52	94+
Gaff		
Fishing	43	5
Gamecock	30	297
Grappling	294	19.3
Ship spars	114	97+
Gag		
Fishing tackle	43	53.5
Runner for bridles	54	14
Side cutting harvester lever	56	271+
Specula	128	12+
Gage (See Gauge)		
Gauge	164	411
Flask with	164	382
Gain Control, Automatic	73	900*
Gaining	144	133R
Gaiters	36	2R
Design	D 2	267
Fastenings	24	
Making	12	142W
Galley		
Ships stove	126	24+
Type setting	276	40+
Justifying machine	276	33
Gallic Acid	562	476
Gallium		
Pyrometallurgy	75	688
Gallocyanines	544	99+
Galloons		
Lace	87	10
Gallows (See Execution Devices)		
Galvanized Sheets	428	659
Galvanizing		
Metals	427	433+
Galvanometers	324	76R+
Galvanoplastic Processes	204	6
Gambrels	294	79+
Butchers	17	44+
Roof design	D25	24
Game		
Amusement railways	104	53+
Annunciator systems	340	323R
Board games	273	236
Carrier	224	103
Other than stringer	224	921*
Check or coin control	194	
Computer controlled, monitored	364	410+
Design	D21	1+
Game apparatus	273	
Peg tally board	235	90
Pieces	273	288+
Design, misc	D21	51+
Score boards	116	222+
Spinners & indicators for	D21	22
Tables	D21	121+
Tally sheet	283	49+
Tv, input control	273	
Input control per se	340	709+
Gamecock		
Boxing muff	119	143
Gaff	30	297
Gamma		
Geiger survey meter	250	374+
Radiation reflector	376	220
Radiation reflector	376	350
Radiation reflector	376	458
Radiation shield	376	287
Radiation shield	376	347
Radiation survey meter	250	336.1
Scintillation type	250	361R+
Ray detector	250	336.1
Gang		
Button, eyelet, rivet setting machine	227	51+
Circular saw roller feed	83	425.2+
Earthworking disk	172	599+
Plural	172	579+
Scrapers	172	558+
Harvesters	56	6+
Metal working rotary cutter	407	31
Nail feeding delivery	227	
Plows		
Wheeled	172	314
Punching machine	83	620+
Woodworking		
Rotary disc cutter	144	237
Slivering saw	144	189
Gang Bar Type Locking or Latching Means		
Cabinet	312	216+
Sectional unit type	312	107.5
Ganged Radio Tuner	334	
Operator only for tuner	74	10.45
Gangway		
Animal traffic	119	82
Car loading side	105	436
Conveyer skids	193	41
Conveyer skidways	193	38+
Endless conveyer type	14	70
One end attached	14	71.1
Ship attached one end floating	114	258
Unattached	14	69.5
Gantry	212	218+
Gap Jumper Amusement Railway	104	54
Garage	52	
Vehicle handler	414	227+
With ramp	52	174
Garbage		
Boiler plants for destroying	122	2
Carbonization of	201	21
Dump & trash truck design	D12	15
Fat etc recovery from		
Rendering	260	412.6+
Solvent extraction	260	412.8
Fertilizer from	71	14
Grinding and disposal		
Comminuting solids	241	
Design of machine	D 7	375
Grinder	4	DIG. 4
Sinks combined	4	629
Incinerator	110	235+
Insect trap for can	43	120
Receptacle		
Household design	D34	1+
Stand with closure operator	248	147
Truck, compactor type	100	100
Utilization for food	426	655
Wet fuel furnace	110	238
Garden (See Plant Husbandry)		
Garland	428	10
Design	D11	119
Paper, making	493	958*
Garment		
Absorbent pad holding	604	393+
Apparel	2	
Apparatus	223	
Design	D 2	26+
Design costumes	D 2	79
Design costumes bifurcated	D 2	30+
Design lingerie or undergarments	D 2	1+
Design surgical	D 2	
Bag, protector	493	935*
Bandaging type	128	82+
Respirator mask	128	206.12+
Suspensory	128	159
Body discharge shield	604	356+
Buttons buckles clasps etc	24	
Article holders	24	3R+
Shielded buckles	24	184
Cleaning		
Fluid treatment	8	
Fluid treatment apparatus	68	
Demonstration	434	395+
Fastener bonding	156	66
Fastener making	140	81
Forms	223	66+
Foundation type	450	7+
Hangers	223	85+
Making	140	81.5
Knitted	66	171+
Design	D 2	44+
Design dresses, suits, skirts	D 2	43
Life preservers	441	88+
Light etc application to body	128	379+
Parachutes attached to	244	143
Protectors boot and shoe	36	70R
Receptacles for	206	278
Hat and headwear	206	8+
Seat attached holders for	297	190
Stay making	140	91
Stiffener making	223	28+
Supporters		
Blouses	2	107
Brassiere with	450	28+
Combined	2	300
Connected spaced for plural	2	304+
Convertible or reversible	2	301
Corset or girdle with	450	110+
Elements	2	336+
Foundation garment with	450	26
Mens outer shirts	2	117
Partially encircling	2	309
Plural encircling type	2	308
Rigid vertical type	2	302+
Shoulder suspension and encircling	2	310
Strip connected spaced	2	323+
Torso or limb encircling	2	311+
Underwear	2	112
Garnet Paper	51	394+
Garnetting Machines	19	98+
Garters		
Apparel design	D 2	
Corset or girdle with	D 2	2+
Fasteners	D 2	625+
Brassiere with	450	28+
Combined	2	300
Connected spaced for plural	2	304+
Corset or girdle with	450	110+
Elements	2	336+
Encircling	2	311+
Foundation garment with	450	26
Partially encircling	2	309
Plural encircling type	2	308
Rigid vertical type	2	302+
Shoulder suspension and encircling	2	310
Strip connected spaced	2	323+
Gas (See Fluid)		
Ammunition and explosive devices	102	367+
Drop bomb	102	369
Grenade	102	368
Gun cartridge	102	370
Shell	102	367
Analysis		
Chemical apparatus	422	50+
Chemical process	436	153+
Content	73	19.1
Electrical	324	
Physical	73	23.2+
Spectrometry	250	281+
Apparatus, gas & liquid contact	261	
Batteries	429	12+
Blood gas analysis	436	68*
Burners	431	
Burners	239	
Nozzles per se	239	
Cap for automobile	D12	197+
Cigarette lighter	431	150
Igniter correlated with feed	431	130+
Igniter correlated with feed	431	254
Circulated in circuit	261	DIG. 27
Coal	48	210
Coating contacting	427	248.1+
Compositions	252	372+
Concentrating evaporators	159	
Content of nongaseous material	73	19.1
Cooler	62	404+
Automatic	62	186+
Liquid contact with gas	62	304+
Process	62	89+
Deflector for separation	55	434+
Detectors		
Alarms	116	67R
Analysis chemical apparatus	422	50+
Analysis chemical methods	436	153+
Analysis miscellaneous	436	153
Apparatus	435	807*
Chromatographic	73	23.4

	Class	Subclass
Density	73	30.4
Electric alarms	340	632*
Moisture content	73	29.5
Nonchemical gas analysis	73	31.5*
Thermal property	73	25.5
Vapor content	73	29.5
Vibration testing	73	24.6
Discharge display panels	313	582*
Discharging nozzles	239	
Dispensing	222	3*
Packaging combined, method	53	403*
Distribution	137	
Airship control	244	96*
Cooling and or insulating electrical conductors	174	16.1
Explosion prevention	48	192
Heating and illuminating	48	190*
Leak detectors	137	455*
Leakage detection & prevention	48	193*
Musical instruments	84	330*
Outlet nozzles	239	
Electrochemical processes	204	126*
Engines	123	
Extinguishers	169	11
Foam forming	169	14*
Filling lamp or radio tube	141	66
Filters	55	
Fittings, design	D26	113*
Furnace		
Coking	110	230*
Domestic hot air	126	99R*
Industrial	432	
Power plant combined	60	669
Producer	110	229*
Solid fuel furnace combined	110	260*
Getter (See getters)		
Guns	42	
Bank protection	109	20
Bank protection combined	109	29*
Heaters and stoves	126	
Boilers	122	
Carburetor	261	127*
Cooking stoves	126	39R*
Design	D 7	339*
Design	D23	314*
Heating stoves	126	58*
Hot air furnace	126	116R
Metallurgical apparatus combined	266	138*
Stove burners	431	
Nozzle	239	398*
Stove structure	126	
Heating and illuminating	48	
Acetylene	48	1*
Carburetors	48	144*
Distribution	48	190*
Generators	48	61*
Mixers	48	180.1*
Natural	48	198.1*
Processes	48	197R*
Purifiers	48	128*
Retorts	48	119*
Holders and packages	206	.6*
Acetylene generator combined	48	
Heating or illuminating	48	174*
High pressure	220	3
Inhaler combined	128	203.12
Medicator	604	403*
Structures	220	
Telescopic	48	174
Illuminating	48	
Burner nozzles	239	
Inert	55	66
Separating	55	66
Injection		
Bathtub combined	4	542*
Convective distillation	203	49
Iron steel (molten)	75	528*
Liquid contact apparatus	261	
Medicators	604	19*
Mortar mixer	366	10*
Process	366	3*
Ionization in thermo nuclear reaction	376	100
Thermolytic distillation	201	31
Thermolytic distillation	201	36*
Lamp brackets, fittings	D26	113*
Light incandescent burners	431	100*
Design	D26	1*
Liquefaction	62	36*
Processes	62	9*
Liquefied handling apparatus	62	45.1*
Receptacles	220	901*
Liquefiers and solidifiers		
Acetylene generator combined	48	1
Refrigeration	62	
Separating gases	55	209
Separating gases processes	55	81
Liquid contact with	261	
Automatic refrigeration	62	171
Concentrating evaporators	159	
Distillation	203	49
Gas separation combined	55	
Heat exchanger	261	127*
Mineral oil	208	
Percolation control	261	DIG. 81
Refrigerating process	62	121
Refrigeration	62	304*
Sugar treating	127	12
Log heater-fireplace	D23	409
Making		
Coking furnace	110	230*
Compositions	252	4*
Furnace	110	229*
Furnace and boiler combined	122	5
Furnace using liquid fuel	431	161*
Generators chemical	422	164
Heating and illuminating	48	
Life preservers	441	98*
Oil	48	211*
Mantles	431	100
Compositions	252	492
Mask	128	206.12*
Canisters for	55	DIG. 33
Filters	502	400*
Processes of making corrugated tubes for	264	DIG. 52
Separating gases	55	
X-art collection	425	815*
Meters	73	861*
Coin controlled	194	
Mixers		
Acetylene generator combined	48	3R
Fuel burner	431	354
Heating and illuminating	48	180.1*
Internal combustion engine charge forming device	123	434*
Monitor	73	23.2*
Photoelectric	250	573
Radioactivity	250	336.1
Scintillation type	250	336.1
Nuclear fusion fuel	376	151
Oil	48	211
Pump	D15	9.1
Water	48	214R*
Operated		
Firearms and guns	89	125*
Rotary kinetic motors	415	
Rotary kinetic pumps	415	
Permeable coated fabrics	427	245
Poison	424	
Pressure storage	137	206*
Pressurized gas treatment of textiles	8	DIG. 15
Producers		
Chemical	422	126
Heating and illuminating	48	
Protecting joint during bonding	228	214
Public utility meter	D10	99*
Pumps	415	
Impellers	416	
Oil or gasoline pump	D15	9.1
Purifying	55	
Chemical	423	210*
Compositions, absorbent	502	400
Compositions, chemical agents	252	182.11*
Heating and illuminating	48	128
Ranges	126	1R*
Rapid producers of	149	
Rare	423	262
Electric furnace atmosphere	373	
Arc furnace	373	60
Resistance furnace	373	110*
Electric lamps	313	567*
Electronic tube	313	567*
Food preservation with	426	512*
Lantern	362	263*
Liquefying and separating	62	22
Purification chemical	423	210*
Separating	55	66
Rectifier full wave	313	581
Rectifier half wave	313	567
With hot cathode	313	629
Refrigeration produced by	62	401*
Automatic	62	172
Heat generation type	62	6
Process	62	86*
Samplers	73	863*
Separation	55	
Chemical	423	210*
Electrostatic precipitators	55	101*
Flowmeter combined	73	200
Flue	110	148*
Liquid contacting means	55	220*
Liquid from	55	159*
Non-liquid cleaning means	55	282*
Recycle means	55	338*
Refrigeration apparatus	62	36*
Refrigeration process	62	11*
Solid	73	19.1
Nonchemical gas content detecting	73	19.1
Solid contact with	34	
Comminuting	241	
Distillation	201	
Gas separation	55	
Textile treating with	68	
Thyratron	313	591*
Triode	313	567*
Tube amplifier system	330	41
Ultraviolet treating		
Apparatus	250	432R*
Chemical change in	204	124*
Sterilizing	422	121*
Water heaters	126	344*
Gaseous Fuel Burners	431	
Discharge nozzle	239	
Igniters	431	
Discharge nozzle	239	
Heating attachments	126	249*
Tool heating attachments	126	231*
Synthetic	585	14
Gasket	277	
Applying		
Apparatus laminating	156	
To metal cap or closure	413	8*
Apparatus	413	58*
Barrel bung	217	109
Design	D23	269
Making by laminating	156	
Pipe joint combined	285	335*
Gasoline	208	
Carrier truck	D12	95
Explosion preventing appliances in containers	220	88.1*
Fuel composition containing	44	300*
Pick up truck mounted	D12	156
Pump	222	
Design	D15	9.1*
Storage tank systems	220	855
Gasometer (See Gas Holders)		
Gastroscopes	128	8
Gate	49	
Design	D25	50*
Hinges	D 8	323*
Drawbridge	14	50*
End for vehicle bodies	296	50*
Standing top	296	106
Hanger	16	86.1*
Hinge	D 8	323*
Latch	D 8	331*
Motion picture	352	221*
Operators	49	324*
Railway highway crossing		
Automatic	246	292*
Automatic electric	246	125*
Fluid motor	246	261
Vehicle actuated	246	272
Register operated by	235	93
Sorting animal	119	155
Umbrella joint	135	32
Valve (See valve)		
Water gates	405	87*
With flow meter	73	215
Gated Beam Discriminator	313	300
Gatherer		
Brush and broom making		
Tuft gathering	300	7
Tuft gathering and setting	300	5*
Conveyor type loading machine	198	506*
Fish with conveyor to boat	43	6.5
Glass		
Ladling and gathering	65	125
Tank furnace gathering pool	65	336*
Harvesters	56	
Cornstalk type	56	119

	Class	Subclass
Cornstalk type cutter combined	56	51*
Cornstalk type picker or husker combined	56	103*
Design	D15	10*
Design hand tool	D 8	13
Fruit	56	328.1*
Seed	56	126*
Seed motor driven	56	12.9*
Standing grain	56	219*
Vegetable	56	327.1
Sewing machine attachment	112	132*
Signature	270	54*
Stones and rocks	171	63*
Vertically swinging shovel or fork	414	686*
Gating Circuits	358	153*
Multiplex		
Telegraph	370	46*
Telephone	370	112
Radar	342	94*
Automatic range gate	342	95
Television	178	69R
Transmit receive switches	333	13
Gauge (See Guide)	33	501*
Abrading		
Process of gage grinding	51	286
Work holder	51	220*
Work rest	51	239
Altimeter	73	384*
Auger attachments	408	72R
Awl or prick punch combined	30	368
Bore	33	555.1
Chisel attachments	30	167.2
Circular size	33	555.1*
Collocating	33	613*
Combined with diverse tool	7	164
With cutter	7	163
With handsaw	7	150
With hatchet, hammer	7	122
Contact type	33	501*
Control for abrading wheel	51	165R
Control for rolling mill		
Elongation	72	250
Metal thickness	72	16
Strip tension between stands	72	10*
Cooking apparatus	99	343
Dental	433	72*
Depth		
Endodontic	433	75
Inkstand	15	257.73
Liquid	73	290R*
Ore electric	324	323*
Sounding	33	713*
Specific gravity test combined	73	447
Submarine, electro-acoustic	367	99*
System electric	340	618*
Design	D10	61*
Die rolling	72	250*
Distance single contact	33	559*
Feeler type	33	501*
Fixed distance	33	501*
Fluid flow	73	861*
Direction combined	73	189
Harvesting cutter	56	121.4*
Ionization	250	374*
Marking	33	18.1*
Nailing combined		
Nippers combined	30	179
Pressure		
Calibrating	73	4R
Fluid	73	700*
Punch point combined	30	368
Railway		
Tie plate	238	288
Track clamp	238	339
Truck changeable gauge	105	178
Wheel gauge changer	104	33
Saw making	76	46
Screw threads	33	199R
Sewing machine		
Buttonhole	112	75
Hat	112	15
Shoe sole	112	39
Shears with	30	233*
Sheet cutting machine	83	268*
Sheet cutting machine	83	391*
Sheet cutting machine	83	467.1*
Sheet feeding alignment	271	226*
Static mold having	249	53R
Structure	33	501*
Tool	33	201*
Track leveling light ray type	33	287
Tympan	101	413*
Typewriter		
Paper feed edge	400	630*
Wheel	33	203*
With point markers	33	666*
Wood hoop bending	144	258
Wood saw table	83	522.11*
Woodworking bench plane	30	481
Work supported work holder	269	
Gauging	73	
Automatic sorting by	209	659*
Gauze		
Fabrics	139	419
Looms	139	50*
Gear and Gearing	74	20*
Actuated (See device actuated)		
Backlash take up	74	409
Gear body	74	440*
Bearing, hydrostatic	409	904*
Belt and sprocket or pulley	474	
Guards for	474	144*
Bevel		
Gearing	74	423*
Gearing intersected axis	74	417
Gears	74	459.5
Pivotally supported gearing	74	385*
Planetary	475	
Bolts for closure fasteners	292	279*
Multiple	292	22
Broaching	409	243*
Casings	74	606R*
Design for velocipedes	D12	124
Chain	474	
Design	D 8	499
Change speed	74	325*
Friction	74	190*
Planetary	475	185*
Planetary	475	269*
Non-planetary combined	475	207*
Crimping	28	279
Cutting	409	1*
Differential		
Disc type gears	74	444
Multiple input	475	1*
Planetary	475	220*
Electric motor and gearing	310	80*
Control gearing	74	640*
Motor control system	318	9*
Planetary gearing	475	149*
Epicyclic	475	*
Friction	74	190*
Planetary	475	183*
Single speed	74	206
Gauge	33	501.7*
Gearing	74	640*
Planetary	475	
Geneva		
Gear	74	436
Gearing	74	84R
Planetary gearing combined	475	14*
Hinge	16	354
Holder, work	409	903*
Indexing	409	221*
Interchangeably locked	74	325*
Intermittent motion		
Geneva	74	436
Irregular teeth	74	437
Worm	74	426
Landing (See landing devices)	244	100R*
Locks for	70	190*
Making		
Cutter	407	20*
Cutting	409	1*
Forging	72	376*
Grinders	51	
Grinding processes	51	287
Laminating processes	156	
Processes	29	893*
Rolling	72	67*
Metal rolling type	72	249
Meter	73	261
Milling	409	50*
Motor		
Expansible chamber	418	191*
Internal combustion	123	
Mutilated (See gear and gearing geneva)	74	435
Patterns, tracers and tools	409	2*
Planer type	409	1
Planetary	475	
Speed varying	475	14*
Planing	409	42*
Power take off	74	11*
Printing plate stereotype	409	901*
Pump	418	191*
Lubricating	184	31
Used as brake	188	292
Used as clutch	192	61
Rack and pinion	74	422
Pushing and pulling implements	254	95*
Ratio changing	74	393*
Belt and sprocket	474	69*
Expansible pulley utilizing	474	47*
Expansible cone pulley	474	8*
Friction	74	190*
Planetary	475	185*
Interchangeably locked	74	325*
Planetary	475	269*
Reversing	74	640*
Robot	901	25*
Roll with driving	29	115
Running gear land vehicles	280	80.1*
Screw, helical or worm	74	640*
And nut	74	424.8 R
Screw geared jacks	254	103
Sectional		
Gears	74	439*
Watch winding and setting	368	197*
Shift transmission control	74	473R
Brake combined	192	4C*
Clutch combined	192	3.51*
Motor control combined	74	843*
Shiftable gear clutch or key (See gear interchangeably locked)		
Alternating rotary clutchable gear	74	322*
Alternating rotary shiftable gear	74	321
Clutch and gear	192	20*
Speed controlled (See type of gearing)		
Speedometer drive type	235	95R*
Spline and	33	DIG. 14
Sprocket	474	
Crank and pedal combined	74	594.2
Spur	74	460*
Steering (See steering)		
Stock material, metal	29	
Motor vehicle	180	79*
Switch	200	501
Teeth and bodies	74	431*
Bodies	74	434*
Teeth	74	457*
Planetary	475	344*
Teeth lubricated	74	468
Testing	73	162
Tire mold	409	902*
Valve		
Expansible chamber motor type	91	
Internal combustion engine	123	90.1*
Work tables	409	92*
Yieldable		
Gearing	74	411
Planetary	475	346*
Gears	74	461
Gear, Gate, Git	135	32
Geiger Counter	250	374*
Design	D10	47
In nuclear reactions	376	254
Geiger Muller Tube	313	93
Survey meter	250	374*
With circuit	250	374*
Geissler Tubes	313	567*
Illuminating fixture with	362	217*
Gel		
Colloidal	252	315.1*
Misc. chemical manufacture	156	DIG. 108
Radioactive	252	634
Silica	423	334*
Gel Route to Glass Making	501	12
Gelatine	530	354
Jellies	426	576
Gems	63	32
Artificial	501	86
Changing color by radiation	378	38
Design	D11	89*
Setting methods and apparatus	29	10
Settings	63	26*
Genealogical Charts		
Teaching	434	154*
Generator Motor	310	113
Generators (See Steam, Generators)	D13	112
Acetylene	48	1
Acetylene	48	2

	Class	Subclass
Acetylene	48	3R
Acetylene	48	4+
Chemical	422	198+
Chemical pressure in fire extinguisher	169	6+
Combustible mixture for internal combustion engine	123	3
Electric	310	
Battery charging	320	61+
Bicycle	362	193
Chair operated therapeutic	128	378
Combined in electronic tube	315	55
Compressional wave actuated	367	140+
Correlated with burner feed	431	255
Driven by compressional wave	367	178
Electric meter having	324	76R+
Electrically driven	322	
Electrostatic	310	309
For supplying engine ignition	123	149R
Infrared heat	392	407+
Locomotive	105	35+
Motor generator	310	113
Musical	84	600+
Nonelectric prime mover plant	290	
Nonmagnetic	310	300+
Nuclear	310	301+
Reactor	376	100
Reactor	376	347
Oscillator	331	
Piezoelectric	310	311+
Piezoelectric systems	322	2R
Plural generator in system	307	43+
Rotary	310	40R+
Sound wave actuated	367	140+
Superimposed different currents	307	1+
Supplying different circuits	307	18+
Synchronous inductive	310	171
System of control	322	
Systems	322	
Temperature measuring plural	374	110+
Thermoelectric	136	200+
Voltage controlled	322	
Fumigators sterilizing	422	305+
Gas	48	61+
Power calculation for	364	492
Refrigerator	62	
Sinusoidal		
Electronic tube type oscillator	331	
Generator structure	310	
Generator system	322	
Steam	122	
Steam combined with stove	126	5
Vapor pressure thermostat	374	201+
Genetic		
Expression	935	33*
Transfection	935	52*
Transformation	935	52*
Vectors	935	72*
Genetic Engineering	435	172.1+
Apparatus	935	85*
Assay	935	76*
Recombination	435	172.3
X-art collection	935	*
Genetically Engineered Cells	435	240.1+
Genetically Engineered Cells	435	243+
Utilization	435	
X-art collection	935	59*
X-art collection	935	66*
Geneva		
Drive	414	905*
Gear	74	436
Gearing	74	84R
Planetary combined	475	14+
Genital		
Body wear bands combining	128	386
Catheter	604	264+
Curette	606	160
Cutter		
Castrating	606	137
Embryotome	606	126
Urethrotome	606	170+
Dilator with light and electrical application	606	13+
Kinesitherapic appliance	128	31
Male electric applicator	128	794
Obstetric instruments	606	119
Forceps	606	205+
Orthopedic appliance	128	79
Pessary and inserter	128	834+
Receptor		
Body protruding member	604	346+
Catamenial and diaper	604	358+
Obstetric	604	317+
Urethrorrhoeal	604	327+
Sexual restrainer	128	883+
Stallion shield	119	145
Suspensory bandage	128	158+
Tampon		
Inserters	604	11+
Structure	604	358+
X-art collection	604	904*
Vaginal		
Douche (See douche)	604	36+
Electric applicator	128	788
Geodisic Dome	52	81
Design	D25	13
Geographical		
Clock	368	21+
Teaching	434	130+
Geology, Teaching	434	299
Geometrical Instruments (See Type of Instrument)	33	
Blocks educational design	D21	108
Design	D10	61+
Teaching geometry	434	211
Geophysical Prospecting (See Prospecting)		
Acoustic means	181	101
Digital computer with system	367	60+
Exploration in situ	324	323+
Geochemical exploration	436	25
Nuclear	250	253+
Underwater seismometer spreads	367	15+
Vibration transducers	367	140+
Geothermal Power Plant	60	641.2
Geraniol	568	875
Masonry	52	723
German Silver	420	481
Germanium, Misc. Chemical		
Manufacture	156	DIG. 67
Alloys	420	556
Organic compounds	556	81+
Pyrometallurgy	75	689
Germicides	424	
Germicidal lamp (See ultraviolet; X ray)		
Water softening compositions containing	252	175+
Germination		
Retarding & accelerating compositions	71	65+
Seed germinator	47	61
Germine	546	28
Gerotor Motor	418	61.3
Gettering	437	10+
Getters (See Absorbent)		
Compositions	252	181.1+
Gettering	156	DIG. 66
Processes of use	445	55
Pumps	417	48+
Gib (See Key)		
Slide bearings	384	39
Gill Net	43	10
Gilsonite (See Asphalt; Pitch)	208	22+
Gimbal	248	182
Gimlets	408	230
Gin		
Beverage	426	
Cotton	19	39+
Saw sharpening and gumming	76	32+
Ginger Ale	426	590+
Girder (See Beam)	52	721+
Bridge	14	17
Composite	52	730+
Dissimilar material	52	722+
Design	D25	126+
I-beam	52	729
Making	29	897.35
Mortar bonded	52	433+
Static mold	249	50
Girdles	450	94+
Combined with bra	450	7+
Design	D 2	2
Design bifurcated	D 2	4
Design combined with bra	D 2	3+
For nuclear reactor	376	302
Moderator structure	376	304
Girths		
Harness	54	23
Packing	277	
Gland		
Extracts		
Medicines containing	424	520+
Glare		
Reduction	350	276R+
Automobile screen	296	97.1+
Filters	350	311+
Glass antireflection coating	350	164+
Polarizers	350	399
Rearview mirror	350	277+
Glass	65	
Actinic composition	501	900*
Developing by heat	65	111+
Bead		
Reflector	350	104+
Reflector making	427	163+
Block construction	52	596+
Translucent component	52	306
Blowing		
Charging glass melt furnace	414	165+
Compositions	501	11+
Cutters (See search notes)	83	879+
Drinking glass	D 7	509+
Electric furnaces	373	27+
Etching	156	663
Fiber, coated	428	357+
Glass-to-metal seal	428	432
Metallic	428	636
Gratings optical	350	162.11+
Grinding processes	51	283R+
Handling cylinders of	414	24
Household glassware	D 7	509+
Laminated and safety	428	426+
Wire glass	428	38+
Manufacturing	65	
Filament or fiber making	65	1+
Process	65	17+
Processes of uniting glass	65	36+
With electric lamp making	445	22
With metal founding	164	
With metal working	29	
Ornamenting		
By abrasive blasting method	51	317+
By grinding	51	
Photochromic	501	13
Plate		
Grinding and polishing	51	
Pot furnaces	432	156+
Pots	432	262+
Product manufacturing computerized	364	473
Scribers	33	18.1+
Stand, rack or tray for	D 7	616
Stemware	D 7	524+
Structural	428	268
Wire mesh	428	38
Treating hard glass	65	
Apparatus	65	348+
Process	65	111+
Window	428	38
Glasses (See Eye Glasses)		
Eye and spectacles	351	41+
Design	D16	102+
Metal frame making	29	20
Optics	350	481
Ground for cameras	354	161
Sight for liquid level gauge	73	323+
Glassware	D 7	509+
Glaucine, in Drug	514	284
Glaze		
Compositions	501	14+
Glaziers Points	411	477+
Setters	227	
Glazing		
Earthenware	427	376.2
Firing	264	60+
Fruits and vegetables	426	289+
Glider		
Aerial toy	446	61+
Aircraft	244	16
Furniture design	D 6	344+
Porch swing	297	282
Hammock couch type	5	124+
Glides	16	42R+
Furniture design	D 8	374
Globe		
Clock	368	23
Design	D10	10
Lamp	362	809*
Design	D26	118+
Lantern	362	363
Design	D26	37
Operators for	362	174+
Manipulating pole	81	53.11+

	Class	Subclass
Operator tube lantern	362	174+
Railway amusement	104	68
Teaching	434	131+
Terrestrial globe	362	809*
Globin	530	385
Globulins	530	386
Glove	2	159+
Baseball	2	19
Boxing	2	18
Buttoners	24	40
Design	D 2	643
Design	D 2	617+
Fingerless	D 2	610+
Forms	223	78+
Knitted	66	174
Circular machine	66	45
Straight machine	66	65
Sewing machine	112	16+
Glow		
Discharge, chemical apparatus	422	907*
Discharge diode	313	567+
Transfer counter	377	103+
Glower (See Electric; Electrode; Filament; Lamp)		
Glucaminos	564	507
In drug	514	669
Gluconic Acid	562	587
Glucosamines	536	55.2
Glucose	127	30
Making	127	36+
Tests for	436	95*
Glucosides	536	4.1+
Glue (See Adhesive)		
Compositions	106	125+
Containing	106	125+
Gluing	156	
Applicator	D19	70+
Clamps	269	
Glue heating pots	126	284
Press	100	
Using particular adhesive	156	325+
Glutamates	562	573
Foods ctg	426	656
Preparation by protein hydrolysis	562	516
Glutamic Acid	562	573
Glutamine	562	563
Glutathione	530	332
Glyceric Acid	562	587
Glycerides (See Fats)	260	398+
Rosin	530	216+
Glycerine	568	852+
Fermentative production	435	159+
Glycerol (See Glycerine)		
Glycidol	549	554+
Glycine	562	575
Glycocholic Acid	552	550
Glycols	568	852+
Ethers	568	672+
Oleate	260	410.6
Silicate	556	482+
Stearate	260	410.6
Glycopeptides	530	322
Glycoproteins	530	395
Glycosides	536	4.1+
Cardiac	536	5+
Glyoxal	568	494
Treatment of textiles, polyaldehyde combined	8	DIG. 17
Glyoxaline	548	300+
Glyptal T M (See Alkyd Resins)		
Goad	231	2.1
Design animal	D30	156+
Goal, Game Element	D21	48+
Goblet	D 7	524
Goddard Patent Collection	60	915*
Godet		
Heated by induction	219	10.492
Strand feeding wheel	226	168+
Goggles	2	426+
Design	D16	102+
Combined with head covering	D 2	509+
Gold		
Alloys	420	507
Beating	72	420+
Carbon compounds	556	110+
Electrolysis		
Coating	204	47.5+
Synthesis	204	109+
Foil	428	606
Hydrometallurgy	75	711+
Laminate	428	457+
Metal-to-metal	428	672
With glass	428	433+
Misc. chemical manufacture	156	DIG. 101
Plate	428	672
Pyrometallurgy	75	637
Golf		
Accessory	D21	234
Bag	206	315.3
Bag cart	D34	15
Holder	248	96
On wheeled carrier	280	47.26
Digest	280	DIG. 6
Ball	273	62
Design	D21	204+
Making	156	146
Means to print on balls	101	DIG. 4
Cart	224	274
Cart motorized	280	DIG. 5
Club	273	77R+
Design	D21	214
Rack or support for	211	70.2
Woodworking machines for making	144	2XA
Courses	273	32R
Miniature	273	176R
Covers, flaccid	150	160
Game board	273	245
Pocket or capture feature	D21	18
Simulation	D21	27
Surface projectile game	D21	11
Gauge	33	508
Glove	2	161R
Design	D29	22
Handles or grips	273	81R
Design	D 8	DIG. 6
Holes	273	32R
Putting	273	34R
Powered passenger cart	D12	16
Practice devices	273	35R+
Score registers	273	87R
Shoes	36	127
Simulated game	273	87R
Targets	273	181R
Miniature golf	273	176R
Putting	273	34R
With ball return	273	182R
Teaching devices	434	252
Tees	273	33+
Carriers	224	191+
Design	D21	234
Device for setting	273	32.5
Gondola		
Railway		
Drop bottom	105	244+
Freight	105	406.1+
Inclined bottom	105	256
Side door	105	258+
Gong (See Bell)		
Goniometer		
Crystal testing	356	31
Light ray type		
Horizontal angle	33	285
Vertical and horizontal angle	33	281
Vertical angle	33	282+
Photoelectric		
Measure of light scattered by particles	356	340
With light conductor	250	227.3
Radio	342	428+
Goniometer device	342	441
Straight edge type	33	403+
Goniophotometer (See Goniometer)		
Governor (See Brake; Control; Photoelectric Regulator)		
Elevator	187	68+
Fire escape	182	191+
Gearing control	74	336.5
Reversing means	74	404.5
Internal combustion engine	123	319+
Pump liquid	417	279+
Speed recorder	346	73
Speed responsive	73	488+
Switch electric	200	80R
Valve	137	47+
Vehicle motion and direction indication	116	38
Wind motor		
Impeller deflection control	416	9
Impeller speed control	416	44
Rotary wheel deflection	416	9+
Gr-n Rubber (See Synthetic Resin or Natural Rubber)		
Gr-s Rubber (See also Synthetic Resin or Natural Rubber)	526	340
Grab (See Grapple)		
Cable traversing hoist		
Load dumping draft rope	212	81
Load suspension	212	84
Clam shell buckets	37	183R+
Dredges	37	55
Furnace charging	414	186
Hoistline grab hooks	294	82.1+
Irons railway rolling stock	105	461
Magnetic	294	65.5
Material handling elevator	414	618+
Magnet and	414	606
Orange peel buckets	37	182
Rotary crane	212	243
Self propelled traversing hoist		
electric	212	127
Guide bar	212	129
Vertically swinging load support	414	680+
Graders and Grading (See Separator)	209	
Design	D15	23+
Grinding abradant supplier	51	264
Railway	37	104+
Road	37	108R+
Scraper type	172	
Gradometers	33	365+
Graduates	73	426+
Graft Copolymer (See Synthetic Resin or Natural Rubber)	525	50+
Grafting	47	6+
Textile fiber grafting	8	DIG. 18
Grain		
Adjusters	56	466+
Car		
Doors	49	404+
Temporary closures	160	370.1
Casse-grain type antenna	343	781CA
Comminuting processes	241	6+
Cradles	56	324+
Drill		
Chutes	193	9
Hoppers	222	
Planters	111	
Drying & gas or vapor contact with solids	34	
Feeder or dispenser	222	
Automatic control of flow	99	488
Food		
Apparatus	99	467
Design	D 1	
Preservation	426	321+
Processes and products	426	549+
Harvesters	56	
Hulling	99	600
By applying fluid	99	518
Land vehicle tank	296	15
Paper grain, digest	229	DIG. 5
Pattern and size		
Grain boundaries in metal stock	148	33.2
Metallurgical linings having specific grain size	266	284
Optical grain sensitizing in photography	430	571
Paper grain digest	229	DIG. 5
Stock, angular grain	428	105
Stock, artifical wood or leather surface	428	151
Stock, parallel grain	428	114
Superimposed grain as color photographic technique	430	365
Wood grain	428	106
Scourers		
Apparatus	99	600+
Processes	426	483+
Scouring by brushing	15	3.1+
Shelled-grain catchers	56	207
Standing-grain gatherers	56	219+
Storage units	D25	14
Bin heaters	D23	334
Ventilation	98	52+
Threshing	460	
Flying grain arrestors	460	59
Recleaners	460	903
Savers	460	905
Separtors	460	79+
Wheels and casters	56	322
Wood grain, stock material	428	106
Artificial woodsurface	428	151

	Class	Subclass
Pattern arrangement in buildings	52	313
Working roller parallel to grain	144	362
Graining (See Granulating)		
Boxes	51	6
Paint brush texturing implement	D 8	16
Tools	15	210.5
Gramicidins	530	310
Gramophones (See Phonograph)		
Grancries	52	192+
Grandfather Clock	D10	16
Granular		
Demodulators for radio	329	371
Detectors for radio	338	1
Microphones	381	180+
Resistance elements		
Brakes	188	268
Electrical	338	223+
Voice transmitter (eg microphone)	381	180+
Granulating (See Crystallizing)		
Common salt	23	303
Evaporation combined	159	45
Inorganic materials	23	313R+
Sugar	127	21
Tobacco	131	360
Grapefruit (See Citrus Fruit)		
Graphic Recorder	D10	61+
Graphite	423	448
Fishing rod	43	18.5
Lubricants containing	252	9+
Moderator structures	376	350
For nuclear reactors	376	458
Graphophone (See Phonograph)		
Grapnels (See Anchor; Grab)		
Grapple (See Grab)	294	86.4+
Fish	43	5
Fork or shovel combined	294	50.5
Fork or shovel type	294	50.6+
Gambrel	294	80
Hand rakes combined	56	400.12
Hooks	294	82.1+
Hand	294	26
Overhead beam	294	85
Submarine	294	66.1+
Tilting handling vehicle	414	444+
Well	294	86.1+
Lifting means combined	166	98
Grappling		
Well, methods	166	
Grasper (See Grapple; Holder)		
Chucks and sockets	279	
Hand and hoist line	294	
Potato digger	171	50+
Grass		
Covering or wrapping	57	4
Spinning twisting twining	57	28+
Grate	126	152R+
Bars	126	167+
Cage	110	294
Design	D23	397+
Fireplace	D23	398+
Hollow air feeding	110	298+
Ore roasting	266	279
Ore roasting, traveling	266	171+
Roller for ore and fuel dressing	209	393
Rotary	126	181+
Stokers	110	268+
Water cooled	122	371+
Grater		
Comminuting surface having opening		
Reciprocating	241	94
Rotating	241	91+
Stationary	241	95
Design	D 7	678
Gratings (See Grille; Register)	52	660+
Diffraction	350	162.11+
Light	350	1.1+
Pavement	404	17+
Sewer inlet	210	163+
Ventilating	98	114
Window	49	50+
Grave		
Casket		
Design	D99	1
Lowering devices	27	32
Rests	27	26
Coverings	27	30
Life signals	27	31
Linings	27	29
Marker	40	124.5
Design	D99	17+
Monuments markers guards	52	103+
Coping	52	101
Vaults	52	128+
Gravelling		
Roads	404	101+
Wells		
Apparatus	166	51
Processes	166	278
Gravitometer	73	382R+
Gravity		
Bucket		
Endless chain water motor	415	5
Self-proportioning systems	137	101.25+
Changing		
Aerated column pump	417	108+
Mineral oil increasing	208	
Conveyers	193	
Moving item from separating station	209	924*
Determination	73	382R+
Feed		
Beverage infuser	99	304+
Boiler water	122	456+
Boiler water heater combined	122	458
Dispensing nongravity combined	222	205
Dispensing nozzles, spouts, etc	222	566+
Molten metal	222	591+
Drier	34	165+
Drier combined type	34	64
Fluid sprinklers	239	376+
Furnace charging type material	414	208
Discharging	414	216+
Liquid cooler	62	397
Lubricators	184	65+
Sprayer pump with	239	329+
Supporting or guiding item moving under influence of	209	911*
Track sander fluid or	291	7+
Trap chamber dispensing	222	424.5+
Levitation & reduced gravity	156	DIG. 62
Operating		
Agitating	366	336+
Aircraft control	244	80
Aircraft stabilizing weights	244	93+
Bolt or nut to substructure lock, mass offset	411	169
Check controlled connectors	194	301
Check controlled lock releasing	194	260+
Clock escapements pendulum type	368	136
Dispenser outlet element	222	500
Fence wire stretcher	256	38
Folding table paired legs	108	131+
Fountain syringes	604	80+
Heating gas carburetors	48	160
Heating gas mixers	48	185
Hinges	16	309+
Hooked end closure fasteners	292	130+
Janney type couplings knuckle openers	213	117+
Janney type couplings locks	213	139
Latch released closure	49	379
Linear traversing hoist	212	92+
Mechanical gun magazine	124	49+
Momentum type brake operators	188	139
Mortar mixers	366	9
Music leaf turners	84	488
Nonrefillable bottles	215	21+
Open link couplings pin support	213	194+
Power plant combined types	60	698+
Railways cable rails	104	113
Sliding bolt closure fasteners	292	183+
Sliding counter protecting shields	109	18
Spittoon	4	284
Spring hinges	16	303
Spring locomotives	105	72
Stamp mills	241	273
Swinging bolt closure fasteners	292	230+
Telephone switch hook	379	424+
Vehicle actuated turntable	104	42
Specific determining	73	32R+
Systems		
Fluid fire extinguishing	169	10
Store service	186	2+
Store service single impulse	186	12
Vessel		
Pneumatic displacement pump valve actuation	417	118+
Greys Telegraphs	178	2R+
Grease Guns		
Dispenser type		
Discharge assistant	222	251+
Follower combined with pump	222	256+
Material operated differential piston	222	253
Movable nozzle connected assistant	222	320+
Receiver discharge coupling	141	383
Replaceable cartridge	222	325+
Lubricators	184	14
Hand operated followers	184	38.1
Hand operated pumps	184	28
Pumps	184	26
Refilling devices	184	105.1
Grease Traps	210	538+
Greenhouses	47	17+
Building per se	52	
Design	D25	15
Greeting Card	283	117
Graphic and or movable	446	147+
Display	40	124.1
Folding display	40	539
Sounding		
Mechanical tape	369	68
Phonograph records	369	273
Phonographic repetition	369	63+
Sounding toy	446	397+
Grenade		
Explosive	102	482+
Thrower		
Firearm attached	42	105
Mechanical	124	4+
Type fire extinguisher	169	36
Grid		
Battery grid filling	141	32+
Battery grid making	29	2
Static mold	249	60
Bucky	378	154
Cleaning or combing	15	142
Deflectors in gas separation		
Electrical resistance elements	338	283+
Electronic tube	313	348+
Heat exchange device	165	168+
Ice cube tray type	249	203
Leaks		
Resistor	338	
Making of wire	140	71.5+
Nuclear fuel plates	376	432
Plates for storage batteries	429	233+
Grid Glow (See Electric Space Discharge Device)		
Griddles	99	422+
Household cooker	D 7	363
Gridirons		
Drip collecting	99	444+
Perforated food support	99	450
Slice toasting	99	385+
Grill Cooking		
Slice toasting	99	385+
Solid heated surface	99	422+
Opposed surfaces	99	372+
Grille (See Gratings; Register)	52	660+
Connected panels	52	581
Curtain shade or screen combined	160	104
Design heating, ventilating	D23	
Lattice	52	660+
Louvre	52	471
Ventilation	98	121.1
Making	29	160
Rod for	52	720
Tile holder	52	384+
Grinding (See Abrading)	51	
Attachments	51	241R+
Cutlery	30	138+
Lathe	29	28
Leather working tool sharpener	69	38
Valve	137	243+
Dental	433	25+
Design	D24	12
Design vegetable and meat	D 7	372+
Hand-held tools	D 8	90+
Household mixer-grinders	D 7	372+
Lens	D15	124+
Machinery design	D15	124+
Mill	241	
Alarms	116	71
Paper making combined	162	261
Optical lenses and mirrors	51	284R
Physical recovery methods	435	803*
Superfinish	51	57+
Tool	D 8	62
Grindstone	51	
Truing or turning	125	11.1
Grip (See Machine or Device Having Grip; Handle)		
Assembling hand tool	29	278+

	Class	Subclass
Chucks and sockets	279	
Cigar and cigarette holders	131	187*
Clasps	24	
Dashboard	296	71
For invalid in bed	5	445
Golf club	273	81R
Handle attachment	74	551.9
Handling implement	294	
Handwheel attachment	74	558
Metal working with	29	DIG. 19
Nose grips for spectacles	351	132
Integral with bridge	351	131
Pince-nez	351	71*
Paper article making	493	405*
Pulley		
Belt traction	474	9*
Strand catch	254	391
Robot	901	31*
Rope or cable		
Anchor	24	115R*
Grip pulley	254	391
Railway cable	104	202*
Store service	186	15
Strand brake	188	65.1*
Vehicle fender cable grip combined	293	3
Screw driver attachment	81	451*
Switch, trigger type	200	522
Hand type	200	332.2
Tool handle	200	293.1
Vehicle seat back	297	183
Gripping (See Device or Machine Utilizing)		
Climbers	182	133*
Clothesline combined	211	119.1*
Conveyor		
Article dispenser	221	210*
Endless	198	626.1*
Rotary	198	624*
Horizontal rack bar combined	211	124
Receptacle closure removers	81	3.4*
Shears	30	134*
Griseofulvin	549	345
In drug	514	462
Grist Mill Alarm	116	71
Grocery Store		
Cart	280	DIG. 4
Display case design	D 6	432*
Groins and Breakwaters	405	21*
Grommets (See Bushing; Eyelet)	D 8	356*
Eyelet lacing device	24	713.6*
Lining thimbles	16	2*
Sail cringle	114	114
Tire bead	245	1.5
Grooming Devices	119	83*
Design animal care	D30	158*
Design personal care	D28	
Bristled articles	D 4	130*
Snow or ice surface	37	219*
Grooving		
Gear cutting	409	1*
Ice shave implement	299	24*
Metal planing	409	304
Road or pavement joint	404	87*
Shoe sole slitting and	12	40
Type finishing and	29	24
Wood	144	136R
Slicing	144	173
Turning spiral	142	23*
Ground		
Detectors	340	650*
Ground effect machine, vehicle	180	116*
Vessels	114	67R
Glasses	354	161
Heating	405	131
Surface	126	271.1
Thermal mining	299	3*
Mats	5	417*
Speed calculators	235	61NV
Speed indicators	33	231
Optical	356	27*
Grounds Electric		
Antielectrolysis	307	95
Box or housing	174	51
Conduit or cable	174	78
Earth	174	6*
Earth transmission radio systems	455	40
Pulse or digital communications	375	6
Electrolytic object protection	204	196*
Gas separator having	55	360
Indicator	340	650*
Lightning rod type	174	2*
Static electricity discharge	361	212*
With antenna	343	846*
Group Frequency Radio	455	
Grouper	101	58
Grousers	305	54*
Grouting		
Process	52	744
Growth and Displacement		
Polymerization	585	328
Logarithmic growth phase	435	802*
Guaiacol	568	653
Guanamine	544	205
Guanidines	564	230*
Biguanides	564	233*
Polyguanidines	564	236
Guano	71	21
Guanyl Hydrazines or Hydrazones	564	227*
Guards (See Safety Devices)		
Animal mouth	119	129*
Animal poke face	119	142
Automobile bumper	293	102*
Bed bottom	5	193
Bed clothing dirt	5	501
Bed side	5	425*
Beer faucet hole	137	380
Bookbinding	281	24
Bottle nonrefillable	215	17*
Building and structure parts		
Bank guard booth	109	9
Barbed fence	256	3*
Door and window gratings	49	50*
Fence top	256	11*
Fire screen	126	544*
Insect blocking	52	101
Insect or animal blocker	52	101
Ladder attachment	182	106
Ladder convertible to window	182	21
Pier fenders	14	76
Rail car seat guard control	104	241
Railway car side	105	439*
Road vault cover	404	25*
Burner nozzle	239	288*
Cable bracket for road	248	66
Chair or seat	297	464*
Closure knob attaching screw	292	351
Clothing		
Added to garment supporters	2	300
Bed	5	501
Body protecting	2	2*
Hat cord	2	189
Hatpin point	132	72.1
Pin fastener	24	706*
Trouser	24	72
Crib movable	5	100
Derailment		
Railway	104	242*
Store service wheeled carrier	186	30
Dust and mud		
Journal box lubricating	384	159
Journal box packed joint	277	130*
Land vehicle	280	847*
Locomotive cab	98	28
Motor vehicle with	180	84
Railway car door or window	105	350*
Railway car window shield	98	25
Resilient tire splash	152	154
Roller bearing seal	384	477*
Typewriter bar	400	467*
Electric		
Collector trolley	191	72*
Conductor	191	35
Signal box	340	303
Eye glass nose	351	136*
Pince-nez	351	78*
Fastener bolt	292	346
Finger ring	63	15
Firearm	42	83
Fishing tackle		
Bait	43	42.4*
Bait casting guard	43	41.2
Hook	43	43.2*
Harness buckle tongue	24	175
Heat exchanger	165	134.1
Highway fence	256	13.1
Hook	43	43.2
Keyhole	70	423*
Letter box chute	232	54
Light	362	376*
Liquid level sight glass	73	325*
Lock antipick	70	420*
Machine and tools		
Cable guide block	254	403
Cleaning nozzle	15	422
Control lever	74	566
Cutlery with	30	284
Dental	433	116
Fabric reeling	242	76
Fan	416	247R
Fork	30	323
Grinding wheel	51	268*
Hand rake	56	400.11*
Harvester cord knotter	56	448
Harvester cutter	56	307*
Machine casing	74	608*
Manicure edge	30	27
Piano pedal mouse	84	233
Power stop safety device	192	129R*
Razor edge	30	51*
Sewing machine	112	261
Shear plural blade	30	233
Shoe sole sewing machine	112	40
Shovel edge	294	56
Sickle	56	298
Slide	384	15*
Spinning machine stand	57	352
Spinning ring with	57	121
Spool holder thread	242	140
Textile wash board splash	68	225
Textile wringer roller	68	264*
Way	384	15*
Weaving shuttle	139	193
Wood saw	83	440.2
Woodworking cutter	144	251R
Zither chord selector	84	289
Nozzle	239	288*
Plant covers	47	26*
Platform associated	182	113
Pocket match safe with wind	206	97*
Railway coupling	213	154
Railway track	238	17*
Crossing tread	246	456
Fence	256	14*
Foot guard	238	379*
Rail detachable	238	140
Switch nonderailing	246	422
Switch point tread	246	441
Rein	54	73
Design	D30	141
Sheet retainer pin	402	71
Ship		
Fenders	114	219*
Mooring line	114	221R
Torpedo	114	240D*
Smoking tobacco ash	131	174*
Splash for cabinet	312	229*
Tree covers	47	20*
Tree trunk	47	23*
Vehicle rein supports and	280	181
Watch	63	24*
Wheel		
Brake	188	233.3
Brake shoe fastener with	188	237
Land vehicle	280	160*
Land vehicle dust guard with	280	152.2
Sawmill carriage	37	194
Tires resilient splash	152	154
Track sander hopper	291	39
Window or door	D25	53
Guayule Rubber	528	930
Gudgeons		
Partition rail type with roller	160	326
Rotary shafting	464	184
Guide (See Associated Device)		
Agricultural implement part		
Cornstalk type harvester	56	119
Cotton picker spindle	56	41*
Reciprocating cutter	56	305
Apparel folding	223	37*
Bearings	384	
Belt and sprocket	474	
Brush striping type	15	166
Cable line or strand	254	389*
Bobbins and spools combined	242	125*
Cable railway gripper combined	104	202*
Carrier reels combined	242	85*
Cloth stretching clamp chain	26	71*
Fishing rod line guide	43	24
Knitting feed	66	125R*
Knotter	289	15
Remote control cable	74	502.6
Sash cord	16	210*

	Class	Subclass
Spool holders combined	242	140
Textile spinning	57	352+
Textile spinning centrifugal pot	57	76+
Textile spinning rail or support	57	136+
Textile spinning receiving twist flier	57	71
Textile strand feeding	226	196
Textile warp	28	172+
Thread stripping guide	28	222+
Winding and reeling	242	157R+
Camera		
Focusing	354	191
Magazine type quarter turned plate	354	183
Sliding plate magazine type	354	180
Closure		
Automobile glass	49	404+
Door and window frames	49	404+
Hanging or drape type	160	330+
Parallelogram type	160	159
Plural panel type	160	181+
Roll panel type	160	23a+
Sliding car door	49	404+
Sliding door or panel	16	87R+
Venetian blind	160	172
Compartmented letter box	232	26
Conveyer belt	198	837+
Automatic shew	198	837
Load retainer	198	836.1+
Conveyers	193	
Coopers stave jointing saw	147	34
Copyholder with static	226	196+
Cutting tool	83	821+
Deflector for fluid motor	415	208.1+
Derailment preventing	104	245+
Dispenser with material guide	222	
Movable guide type	222	526+
Drawer	384	20+
Ball bearing	384	18
Cabinet combined	312	350
Combined with drawer	312	330.1+
Roller bearing	384	19
Earth boring tool combined	175	408
Electric arc furnace electrode	373	
Arc furnace devices	373	60+
Electrode support	373	94+
With electrode holder or guide	373	69
Elevator	187	95+
Fluid or fluent material (See distribution, fluid; feeder; nozzle; pipe)		
Acoustical mufflers	181	233+
Chutes skids guides ways	193	
Conveyer fluid type	406	191+
Metal founding furnace or crucible	266	275+
Nozzle, spout, pouring devices	222	566+
Molten metal	222	591+
Receptacle filling	141	365+
Receptacle filling	141	391
Water control	405	80+
Forging hammer or press head	72	428
Foundry flask	164	385+
Gate hanger		
Bracket	16	90
Roller	16	91
Wheel mounts	16	106
Hair cutting and dressing	132	213+
Hand (See hand grips guards guides rests and straps)		
Hat fastener	132	65.1+
Line on fishing rod	43	24
Liquid level or depth gauge	73	320
Lock or latch part		
Bolt casing	292	337
Combination setting	70	331
Internal key guides	70	453
Key insertion	70	454
Machine or instrument		
Bottle cleaner	15	66
Cultivator lister furrow	172	26
Cultivator tree or stake guided	172	24
Drill	408	72R+
Drill planter check correcting	111	16+
Peripheral face abrading machine	51	102
Radial face abrading machine	51	128
Radial face opposed abrading machine	51	116
Rotary cylinder abrading tool	51	208
Rotary disk abrading tool	51	210
Shoe blacking polisher	15	266
Sole and heel edge trimmer	12	90
Stationary abrading tool	51	214
Manual cutting tool (See machine or instrument guide)	30	286+
Coring or gage paring knives	30	282
Ice pick	30	164.7
Miter box	83	761+
Nippers	30	179
Razor and sharpener	30	37
Shears	30	233
Tool sharpener	76	88+
Metal can head applying	413	26+
Metal coiling	72	142+
Metal rolling	72	250+
Metal turning template	82	11.1
Miter box	83	761+
Monorail system	104	118+
Rolling stock	105	141+
Paper calender doctor combined	100	173+
Pattern		
Gear cutting	409	2
Wood sawing	83	747
Wood shaping	144	137+
Wood turning	142	
Pencil sharpening implement	30	451+
Pencil sharpening machine	144	28.1+
Photography film developing	354	339
Piano key	84	436
Piano key fulcrum combined	84	434
Plain bearings	384	26+
Rail clamp lateral adjusting	238	347
Rail splice bar	238	246+
Railway automatic switch	246	348
Railway rolling stock truck element		
Axle box	105	218.1+
Bogie bolster	105	207
Swinging bolster column mounted	105	191
Saw making		
Band saw type	76	74
Filing	76	36
Screw driver combined	81	451+
Sewing machine		
Glove	112	20
Hat	112	15
Leather channel	112	50
Leather edge and crease	112	51
Leather welt	112	52
Needle	112	227
Work	112	136+
Shaft bearing	384	29
Stage scenery	272	23
Tap metal screw thread type	408	72R+
Tool sharpener	76	88+
Traffic (See traffic lights and guides)		
Type casting	199	3+
Typewriter part		
Keyboard hand guide	400	715+
Ribbon	400	248+
Type bar	400	456+
Upending bedstead shifting fulcrum	5	137
Violin bow	84	283
Washing machine wringer	68	264+
Wave electromagnetic	333	239+
Weaving pattern	139	332
Web or strand	226	
Weigher loading	177	161+
Wheelwright spoke setter type	157	4
Winding and reeling fabrics	242	76
Wood saw	83	821+
Woodworking		
Beveling slicer	144	169
Curved work shaping	144	152
Tool	408	72R+
Work	144	253R
Wrench element		
Pivoted outer jaw traveling fulcrum	81	109
Writing or scribing (See masking; stencils and stenciling)		
Educational	434	164
Scribers	33	18.1+
Straightedge	33	403+
Guided Missile		
Control	244	75R+
By radio (See type of servomotor system)		
Design	D12	16.1
Manned	244	75R+
Radar not within missile	342	62
Space ship	244	158R+
Telemetering	340	870.1+
Torpedo type	114	20.1+
Tracking by antenna	342	75+
Aiming a gun	342	67
Unmanned	244	3.1+
Guillotine (See Execution Devices)		
Shears	83	613+
Guitar	84	267
Bridges	84	298
With tailpiece	84	299
Electric amplifier	84	723+
Gum (See Synthetic Resin or Natural Rubber)	520	1+
Chewing gum package	206	800+
Gum ball vending machines	D20	7
Gums and derivatives	536	114
Nitrogen containing	536	52
Resins (See resins)		
Rubber	520	
Tablet form		
Design	D 1	
Gumming		
Envelope manufacture	493	220+
Saw aperture	83	850
Saw making	76	30+
Gun (See Firearm)	42	
Airgun	124	56+
Antiaircraft	89	
Automatic	89	125+
Blowback	89	194+
Firing devices	89	132+
Gas piston type	89	191.1+
Movable barrel	89	160+
Movable chamber	89	155+
Band type clasps	24	2.5
Barrel		
Firearms	42	76.1+
Materials or coatings	42	76.2
Ordnance	89	14.5+
Bayonet combined	42	86
Billy club	42	1.16
Blowgun	124	62
Bore inspection	356	241
Breakdown type	42	40
Cane gun	42	52
Cattle slaughter type	42	1.12
Control calculators	235	400+
Gun training mechanism	89	41.1+
Motor operated	89	41.2+
Cotton	536	35+
Composition containing	149	94+
Over 10%	149	96+
Design	D22	100+
Grease	D 8	14.1
Pistol	D22	104+
Racks	D 6	552+
Sights	D22	109
Toy	D21	146+
Dummy	42	106
Ejectors	42	25
Electrically operated		
Firearms	42	84
Lighting devices	362	110+
Ordnance	89	135
Electron	313	441+
Extractors	42	16+
Firing mechanisms	42	69.1
Revolver	42	65
Upward tilting breech	42	41+
Flare	42	1.15
Fluid pressure adapter	124	58
Foob, ie fire out of battery	89	42.3
Gatling type	89	12
Grenade launchers	42	105
Gun engaging means	102	483+
Handles	89	1.42
Heaters	89	1.12
Howitzer	89	
Implement combined	42	90+
Indicators	42	1.1
K gun	89	1.1
Knife combined	42	53
Loading	89	45
Lubricating or caulking type	D 8	14.1
Machine gun	89	9+
Toy	D21	146+
Magazine	42	87+
Making	29	1.1+
Mechanical	124	
Mount	89	37.1+
Training mechanism	89	41.1+

	Class	Subclass
Mounted	89	
Movable chambers		
Firearms	42	39.5
Ordnance	89	155
Multiple barrel	89	1.41
Nonrecoil	89	1.7
Pen and knife	42	1.9
Port ship	114	173*
Stopper	114	175
Portable	42	
Powder		
Ammunition loading with	86	
Bags	102	282
Engine starters	123	183
Engines	123	24R
Forms	102	283*
Racks	211	64
Rapid fire	124	72*
Recoil operated	89	162
Recoilless	89	1.7
Rests	42	94
Revolver	42	59*
Safety mechanism	42	70.1*
Automatic guns	89	137*
Revolvers	42	66
Semiautomatic	89	4.5*
Shields	89	36.1*
Deflected ray tube	356	253*
Shotguns	42	
Sidearms	D22	
Sights	33	233*
Design	D22	109
Design, telescopic	D16	132
Optical system	356	247*
Stocks	42	71.1*
Teargas	42	1.8
Telescopic gunsight	D16	132
Toy simulating	42	54*
Ammunition	102	281
Machine gun or projector	124	29
Non-detonating	446	473
With sound	446	405*
Training in gunnery	434	16*
Trigger protectors	42	70.7
Underwater	42	1.14
Walking cane combined	4	515*
Water gun	124	56*
Toy	D21	146*
Water pistol	222	79
Well tubing perforator	175	2
Y gun	89	1.1
Gussets		
Garment	2	275
Gut or Gut Treatment	8	94.11
Splitter	83	932*
Guttapercha	525	331.9*
Gutter	405	119*
Eaves trough	52	11*
Electric conductor underground structure	174	39
Road and pavement	404	2*
Support design	D 8	363
Guy	52	146*
Bed spring and frame	52	272
Gymnastic Devices	272	109*
Coin controlled apparatus	194	
Gypsum	423	554
Calcining	106	722*
Coating or plastic compositions containing	106	772*
Alkali metal silicate	106	611
Gyrating		
Reciprocating sifter		
Actuating means	209	366*
Horizontal and vertical shake	209	326
Horizontal shake	209	332
Gyratory Crusher		
Jaw crushers rotary component	241	207*
Parallel flow through plural zones	241	140
Series flow through plural zones	241	156
Gyro Stabilized		
Article support	248	183
Furniture for ships	114	119
Gyroplane (See Aircraft)	244	17.11*
Gyroscope	74	5R*
Aerial camera combined	354	70
Aircraft control	244	79
Direction indicator	33	318*
Gimbals	248	182
Gun sight combined	33	236
Gyroscopic compass	33	324*
Telemetric system combined	340	870.7*
Gyroscopic light valve, photoelectric	250	231.12
Monorail rolling stock	105	141*
Suspended	105	150*
Rotors	74	572
Rotors and flywheels	74	
Ship antiroll	114	112
Ship stabilizer	114	122
Ship steering	114	144R
Speed responsive devices	73	504
Torpedo	114	24
Torpedo steering	114	24
Toy	446	233*
Transmission	74	64
H Acid	562	71
Habitat, Submarine	114	314
Hack Saw	30	507*
Combined	7	149*
Design	D 8	96
Hanging	83	783*
Hackling		
Combing	19	115R*
Decorticating	19	5R*
Hacks Tree	30	121
Haemocytometer	356	39
Testing lenses	356	124*
Hair		
Artificial furs	428	85*
Artificial structure	132	201
Beauty parlor equipment	D28	10*
Brush	15	160*
Carried hat fasteners	132	60
Clippers	D28	52*
Coating compositions	106	155*
Curlers		
Curling iron	D28	38
Electrically heated	219	222*
Fluid fuel heated	126	408*
Cutters	30	
Design	D 8	57
Design clippers	D28	52*
For inside ear or nose	30	29.5
Hair planers	30	30*
Drying on head		
Apparatus	34	96*
Processes	34	3
Supports for	34	101
Dye applicator	D28	7*
Dyeing and dyes	8	405*
Fasteners	132	273*
Design	D28	39*
Fertilizer from	71	18
Hairpiece	D28	92*
Inserters	606	187
Jeweled fastener	63	2
Net	132	274
Pins (See hairpins)	132	276*
Planers	30	30*
Removing (See notes)	30	32
Burial preparation	27	21.1*
Butchering	17	1D
Coarse or water hair from fur	69	24*
Cutters for inside ear or nose	30	29.5
Depilating untanned skins	8	94.16
Depilatories	8	94.16*
Electric needle	606	44
Electric needle supports	606	44
Fiber liberating	19	2
Fur treatment	69	24*
Process	17	47
Razors	30	32*
Surgical instruments	606	222*
Tweezers	606	133
Shampooing apparatus	4	515*
Shearing, fur finishing	26	15R*
Thinning shears	30	195
Springs	368	175*
Strand making		
Covering by spinning etc	57	4
Spinning etc	57	28*
Synthetic resin or natural rubber containing compositions	524	12
Textile spinning etc	57	29
Thinners	30	195
Design	D28	52*
Toilet preparations	424	70*
Treating process	132	200*
Tufting hair in doll or wig	112	80.2
Waving	132	200*
Hairpin	132	276*
Design	D28	39*
Dispenser	132	332
Hat fastener card or loop and	132	61
Making	140	87
Packaging	227	25
Half Belts	2	309
Half Wave		
Gas rectifier	313	567*
With hot cathode	313	629
High voltage rectifier	313	317*
With emissive cathode	313	310
With thermionic cathode	313	310
Rectifier system	363	13*
Circuit interrupter for	200	
Dynamoelectric machine	310	10*
Electronic tube for	313	317*
Gas tube type	363	114*
Power packs	307	150
Unidirectional impedance for	357	
Vacuum tube type	363	114*
With filter	363	39*
With voltage regulator	363	84*
Halftone		
Blanks and processes printing	101	401.1
Etching	156	654*
X-art	156	905*
Photographic process	430	396
Photographic screens	350	322*
Chemically defined	430	6*
Printing plates	101	395
Halides (See Material Halogenated)		
Hydrocarbon	570	101*
As azeotropes	203	67
Electromagnetic wave synthesis	204	157.15*
Electrostatic field or electrical discharge synthesis	204	169
Metal	423	462*
Electrolytic synthesis	204	94
Nitroaromatic	568	927*
Nonmetal inorganic	423	462
Organic acid	562	800*
Rubber hydrohalide	525	332.3
Hall Effect Means in an Amplifier	330	6
Haloamines	564	114*
Acyclic	564	118*
Hydroxy or ether containing	564	119
Plural difluoramine groups	564	121*
Unsaturated	564	120
Alicyclic	564	117
Amidines	564	116
Halogen Compounds (See Material Halogenated)		
Halogenated Carboxylic Acid Esters	560	1*
Acyclic acid esters	560	226*
Of phenols	560	145
Acyclic amino acid esters	560	172
Acyclic carbamic acid esters	560	161
Acyclic oxy acid esters	560	184
Acyclic polycarboxylic acid esters	560	192
Acyclic unsaturated acid esters	560	219
Alicyclic	560	125
Aromatic amino acid esters	560	47
Aromatic carbamic acid esters	560	30
Aromatic polycarboxylic acid esters	560	23
Oxybenzoic acid esters	560	65
Phenoxyacetic acid esters	560	62*
Halohydrin	568	841*
Halothiocarbonate Esters	558	249
Halowax	570	181
Halter		
Brassiere type garment	450	1*
Feed bags supported on	119	66
Harness	54	24*
Design	D30	134*
Poke with bar and	119	141
Snap releasers	119	114
Hamburger		
Cookers	99	422
Grinders	241	
Molding and shaping (See briquetting meat)		
Hames	54	25*
Collar combined	54	18R
Design	D30	137
Traces and connectors	54	30*
Tugs	54	32*
Hammer	81	20*
Automobile fender straightening	72	705
Burglar alarm	116	88*
Claw	254	26R
Combined with additional tools	7	143*
Design	D 8	75

	Class	Subclass
Drop forging	72	435+
Earth boring tool combined	175	135
Firearm	42	
Forging	72	476+
Heads for piano actions	84	254
Impact clutch type	173	93.5
Implement combined	81	463+
Awl or prick punch	30	358+
Internal combustion charge igniter rocking electrode	123	157
Leather compacting	69	1
Magazine	227	133
Making		
Forging dies for	72	470+
Processes of	76	103
Metal bending	72	462+
Mills	241	185R+
Parallel material flow	241	138
Perforated discharge	241	86+
Process	241	27
Series material flow	241	154
Musical instruments		
Piano	84	236+
Stringed instrument	84	323+
Tuning	84	459
Nut cracker	30	120.1
Pile driver	173	90+
Punching machine	83	
Riveting	72	476+
Road rammer	404	133
Rock drilling	175	135+
Rod encircling type	81	27
Saw stretching machine	76	26
Scale removing	29	81.15
Shoe lasting stretcher and	12	109
Stoneworking combined	125	6+
Impact tools	125	40
Tool driving	173	90+
Tube cleaner inside	15	104.7
Tuning for pianos	84	459
Typewriter		
Bar	400	388+
Key wheel	400	154+
Welding	228	24
Woodworking	81	20+
Hammock	5	120+
Berth	105	320
Design	D 6	386+
Swing	297	277
Hamper or Basket	D32	37
Laundry	D32	37
Hand		
Article manipulated by mechanical hand-like movement	414	1+
Artificial	623	57+
Baskets	217	122+
Checker radioactivity	250	336.1
Miscellaneous	250	336.1
Scintillation type	250	361R+
Clock and watch	368	228
Design	D10	127
Coverings	D 2	610+
Doll	446	327+
Dryers electric	392	380+
Design	D28	54.1
Electric applicators	128	796
Exercising appliances	128	26
Gloves mittens and wristlets	2	158+
Design	D 2	617+
Grips (See handle)		
Blotter	34	95.2
Bowling ball	273	64
Coating implement with material supply	401	6+
Crutch hand hold	135	72
Golf club	273	81R+
Hand wheel rim	74	558
Handle bar	74	551.9
Penholder	15	443
Rein holds	54	74
Ski pole	280	821+
Tennis racket	273	75
Wrench	81	300+
Guards and protectors	2	16
Cutting hand tool	30	295
Design	D29	20+
Fork	30	323
Machine safety stop	192	130+
Guides rests and straps		
Coffin lowering strap	27	33+
Railway car strap	105	354
Stringed instrument rest	84	328
Typewriter keyboard guide	400	715+
Levers	74	523+
Looms	139	29+
Manipulated implements (See hand tools)		
Apparel fluting iron	223	36
Atomizer	239	337+
Bars for carrying	294	15+
Bells	116	171
Blowtorch	431	344
Cutlery	30	
Dental	433	141+
Electric flashlight	362	208
Flatiron	38	95
Lantern	362	257+
Material handling	294	
Pick for stringed musical instrument	84	322
Sorting	209	614
Telephone dialing tool	379	456
Toaster or broiler	99	394
Muffs design	D 2	611+
Operated devices (See type of device operated)		
Operated devices agricultural and earth working		
Cultivating tools	172	351+
Forks and shovels	294	49+
Harvesting cutter	56	239+
Plant irrigators	47	48.5
Planting dibble	111	99
Planting drill	111	82
Rakes	56	400.1+
Raking and bundling	56	342
Scoop excavator wheeled	37	130
Snow excavator	37	196+
Snow excavator and melter	37	230
Subsoil irrigators	111	7.1+
Organs automatic	84	84+
Setting mechanism for electric clocks	368	60+
Stamps	101	405
Design	D18	14+
Surgical thermal wear	128	381
Tools (See type of tool)	81	
Assembling or disassembling	29	270+
Barrel croze	147	24
Barrel head scriber	147	41
Boot and shoe making	12	103+
Butchering intestine cleaners	17	43
Cherry seeder	30	113.1
Cleaning	15	
Cutlery	30	
Dental	433	25
Fish dressing	17	66+
Forks and shovels	294	49+
Hog scrapers	17	19
Meat and vegetable	30	
Meat tenderers	17	29+
Oyster openers	17	74+
Peach stoner	30	113.1
Pick, miners	125	43
Plural diverse tools	7	
Railway mail delivery	258	3
Raisin seeder	30	113.1
Rake	56	400.1+
Tamper for track laying	104	13+
Tufting eg chenille applying	112	80.3+
Tying cords or strands	289	17
With light	362	119+
Vehicles		
Land occupant propelled by hand	280	242.1+
Railway hand car	105	86+
Scoop excavator	37	130
Self loading type	414	444+
Truck ladder	182	127
Truck ladder with erection means	182	63+
Trucks and barrows	280	47.17+
Trucks and barrows dumping type	298	2+
Wheels	74	552+
Hand Cart Design	D34	12+
Hand Mirror	350	640
Plural mirror	350	640+
Handbags	150	100+
Design	D 3	42+
Frame	D 3	54
Latch	D 8	331+
Handcuffs	70	16+
Carrier	224	914*
Handgun (See Pistol; Revolver)		
Handicapped Person Handling	414	921+
Handkerchief		
Design	D 2	500+
Garment attaching means	24	3R+
Garment worn	2	279
Lace	87	10
Medicated	604	358+
Handle (See Grip)	16	110R
Article carrier	294	
Asymmetric-type		
Coffee, teapot and pitcher	D 8	DIG. 9
Lever type	D 8	DIG. 1
Bar	74	551.1+
Design	D12	178
Handgrip design	D 8	303
Battery handle	16	DIG. 15
Bicycle grip	D 8	DIG. 8
Vehicle equipment design	D12	178
Brushware	D 4	
Cabinet with	312	244
Cane type	135	65+
Cast or molded handles	16	DIG. 19
Cleaning equipment, household	D 7	
Cleaning equipment, machinery	D15	
Composition handles	16	DIG. 18
Cooker	D 7	
Dashboard	296	71
Elongated, for tools	D 8	DIG. 7
Extensible	16	115
Fastenings	16	DIG. 24
Brushing machines	15	22.1+
Clamp band	16	DIG. 25
Cutlery blade and handle	30	340+
Cutlery detachable blade	30	329+
Golf club handle	273	80R
Luggage	190	115
Tool	403	
Faucet and valve wheels	D 8	DIG. 3
Fishing reel	242	281+
Fluorescent and phosphorescent	250	465.1
Fly swatter	D22	124
Forming, paper	493	909*
Golf and ski grips	D 8	DIG. 6
Gun	89	1.42
Hand carrying	294	137+
Hand grips, preformed, semipermanent	16	DIG. 12
Handwheel	74	552
Handles for handwheels	74	557
Insulated	16	117
Pipe joint	285	38
Insulated	16	116R+
Coating implement	401	3
Electric	174	46
Kitchen utensil	D 7	
Knife	30	162
Knife and fork	D 8	DIG. 4
Knob-type	D 8	DIG. 2
Locked	70	207+
Luggage or handbag	D 8	300+
Making		
Hollow cutlery type	76	106
Wood	144	11
Mattress	5	466+
Digest, hardware	16	DIG. 28
Movable closure	49	460+
Nozzle	239	525+
Package and receptacle	294	137+
Bail type	220	94R+
Basket	217	125
Closure fastener combined	220	315
Dispenser	222	465.1+
Dispenser discharge assistant combined	222	323+
Dispenser trap chamber combined	222	441
Flexible bag	383	6
Luggage	190	115+
Luggage fastener combined	190	118
Paperboard box	229	117.9+
Resilient wall dispenser	222	210
Trunk	190	39
Pan	D 7	
Pull-type	D 8	DIG. 1
Pyrotechnic or explosive articles	102	358+
Shell thrower	102	486
Receptacle type handle (See magazine)	16	110.5
Cane	135	65+
Coating implement	401	
Cutlery	30	125
Firearm magazine	42	7
Insulated electrically	174	46

	Class	Subclass
Manicuring tool	132	75
Razor	30	86
Retractable	16	115
Sporting goods, misc	D21	
Switch	200	329+
Sword	D 8	DIG. 5
Tool and implement	81	489+
Cleaning tool	15	143R+
Curry comb	119	94
Dispenser combined	222	191
Drive control	173	170
Drive fluid passage	173	168+
Flexible abradant	51	392+
Forks and shovels	294	57+
Golf club	273	81R+
Light support	362	399
Manipulating for drive or hammer	173	
Multiple tool	7	167+
Printing stamp	101	405+
Razor	30	85+
Rigid abradant	51	205R
Sadiron	38	90+
Saw	30	166.3+
Shears detachable blade and handle	30	260
Wrench	81	177.1+
Valve		
Detachable actuator	251	291+
Disabling means	251	89+
Stops	251	284+
Vehicle seat back grips	297	183
With indicia	40	642
Handling (See Conveyor)		
Castings with casting device	164	269
Completed work, of sewing machine	112	121.29
Earth boring drilling fluid or cuttings	175	207+
Fluid handling		
Baths, closets, sinks, & spittoons	4	
Pipes or tubular conduits	138	
Valves & valve actuation	251	
Ventilation	98	
Handicapped person	414	921*
Handler-type toys	414	915*
Handlers using parallel links	414	917*
Handlers with spring devices	414	913*
Implements		
Bakers peel	294	49
Combined or convertible	414	912*
Hand and hoist line implements	294	
Hand tools	81	
Sorting manually	209	614
Mechanism		
Coin	453	
Dryer for hollow articles with	34	105+
Dryer rotary drum type with	34	108+
Dryer rotary drum with	34	108+
Dryer shelf or tray	34	194
Dryer with for dried material	34	236
Fish net	43	8
Furnace charging	414	147+
Target	273	406
Trap shooting targets	273	406
Metal forging work	72	419+
Nuclear reactor components	376	146
Nuclear reactor components	376	260
Nuclear reactor components	376	260
Nuclear reactor components	376	308
Charging or discharging	414	146
Photographic fluid treating	354	340
Pipe or cable	414	745.1+
Submerged	405	158+
Rolling mill work shifter	72	200
Shiftable handler, transmission line for	414	918*
Solid material handling		
Chutes, skids, guides, & ways	193	
Delivery to or from moving vehicle	258	
Elevators	87	
Fluid current conveyers	406	
Food	99	
Furnace ash	110	165R+
Hand & hoist-line implements	294	
Hoists	414	592+
Marine loading or unloading	414	137.1+
Material or article	414	
Package & article carriers	224	
Pneumatic dispatch	406	
Power-driven conveyers	198	
Stacking	414	788.1+
Store service	186	
Traversing hoists	212	
Unstacking	414	795.4+
Toy, material handling	446	424+
Traversing hoists	212	
Vehicles with overhead guard for operator	414	914*
Handpiece (See Hand, Manipulated)		
Dental	433	114+
Handrail	D25	119+
Support	D 8	363
Handsaw	30	166.3+
Combined with diverse tool	7	148+
Handwheel	74	552+
Hanger (See Suspension Devices)	224	232+
Bed bottom		
Frame	5	207+
Slat	5	238
Broom type	248	110+
Butchering	17	44.2+
Eaves trough	248	48.1
Garment	223	85+
Attached to garment	2	271
Design	D 6	315+
Making	140	81.5
Gate	16	86.1+
Illuminating light support	362	432+
Movable component	52	64+
Panel movable	16	87R+
Pipe	248	58+
Rack	211	
Railway		
Cable rail	104	115+
Traction cable	104	182
Trolley	104	111
Rod for sheet or leaf handling	294	5.5
Scabbard	224	232
Shaft	384	215+
Sifter support	209	415
Slender article type, including broom	211	60.1
Suspended roof	52	83
Tent	135	119
Train vestibule face plate rod	105	22
Hanging		
Cable traversing hoist	212	133
Canopies	135	905*
Grindstone	51	168+
Paper	156	574+
Design	D 5	
Plant receptacles	47	67+
Ships rudder	114	165
Sign exhibiting	40	617
Wood saw	83	469+
Hanks		
Finishing	28	287+
Sails and rigging	114	114
Spinning twisting and twining	57	25+
Winding	242	53
Harbor		
Channels	405	84+
Floating	114	258
Wharves	405	284+
Hard-hat	2	411+
Hardening		
Aging	148	158+
Iron	148	142
Iron with working	148	12.3
Cast iron	148	141
Electric hardening		
Apparatus	219	50+
Inductive apparatus	219	6.5+
Processes	148	13+
Zone hardening of ferrous metal	148	150
Electrophotographic fixation	355	282+
Fat	260	409
Glass	65	111+
Quenching iron	148	143+
Localized heat treated stock	148	902+
Localized treatment	148	145+
Surface treatment	148	152
Working combined	148	12.4
Steel	148	
Hardness Test	73	78+
Electric space discharge devices vacuum	324	413
Hardware Miscellaneous	16	
Brushings or lining thimbles	16	2+
Carpet fasteners	16	4+
Casters	16	18R+
Checks & closers	16	49+
Design of	D 8	
Ferrules, rings & thimbles	16	108+
Gate hangers	16	86.1+
Handles	16	110R+
Hinges	16	221+
Nesting hinge leaves	16	DIG. 29
Sash balances	16	193+
Sash weights	16	216+
Sash-cord fasteners	16	202+
Sash-cord guides	16	210+
Tracks, travelers, panel hangers	16	87R+
Window-bead fasteners	16	220+
Harmaline	546	86
Harmonic		
Electric		
Filtering	333	175+
Generation by oscillators	331	53
Harmonic or reed telegraphs	178	47+
Intensifier for loudspeaker or earphone	381	161
Party line ringing	379	179
Semiautomatic telephone ringing	379	252
Telephone ringing	379	372+
Wave analysis	324	77R
Music		
Tunings or arrangements of string	84	312R
Musical		
Electric organ selective control of tone partials	84	659+
Electric organ with tuned generator control	84	622+
Piano harmonic dampers	84	234
Relays	335	94
Circuits	361	182+
Selective system	340	825.39
Relays	335	101
Structure	335	243+
Harmonicas	84	377+
Design	D17	12
Harmonica digest	84	DIG. 14
Harmoniums (See Organ, Reed)	84	351+
Harness (See Body, Harness)	54	
Animal stocks	119	101
Body		
Fire escape	182	3+
Land vehicle occupant	280	290
Paruchute	244	151R
Bridles	54	6R+
Buckles	24	164+
Design	D30	139
Checking devices	54	70
Collars	54	19R+
Design	D30	134+
Feed bags supported by	119	67
Hames	54	25+
Hand package carrier	294	157+
Loom	139	82+
Drawing in warp	28	203+
Hand pushed	139	30+
Motions for dobby looms	139	66R+
Pads	54	65+
Saddles	54	37+
Stirrups	54	47+
Trunk	190	27
Protecting	190	26
Harp		
Aeolian ie wind driven	84	330
Autoharp or zither	84	286+
Jews harp	84	375
Toy	446	397+
Musical stringed instrument	84	264+
Design	D17	16
Piano	84	258
Support for lamp	362	417
Harpoons		
Bomb lances	102	371
Fishing	43	6
Gun	89	1.7
Mechanical	124	
Handling implement	294	125+
Line carrying shells	102	504
Harrow	172	
Cultivator combined	172	133+
Design	D15	10+
Disc sharpener	76	85
Abrading attachment	51	246+
Plow combined	172	133+
Roller combined	172	173
Scraper or drag combined	172	197
Harvester		
Agriculture	56	
Bundle discharging carrier	56	474+
Carrier	56	473.5

	Class	Subclass
Compressing and driving	56	432+
Guards	56	DIG. 24
Motorized	56	10.1+
Rake and rakers		
Bundling and	56	341+
Hand rakes	56	400.1+
Horse rake	56	375+
Loading and	56	344+
Tedders and	56	365+
Shocker	56	401+
Stalk choppers	56	500+
Catching and	56	194+
Conveying and	56	153+
Conveying binding, and	56	131+
Raking and	56	193+
Windrowing	56	192+
Design	D15	26+
Knife holder	51	222+
Knife sharpener	51	36
Marine	56	8+
Mining	299	
Potato or beet digger	171	
Tree felling	144	34R
Hasp		
Closure fastener	292	281+
Lock	70	2+
Hassocks	297	462
Design	D 6	349+
Hat	2	175+
Attached fasteners	132	57.1+
Band	2	179
Box	206	8+
Brush	D 4	
Design	D 2	509+
Eye shields attached to	2	10
Forms	223	24+
Labels and tags	40	329
Making apparatus	223	7+
Making apparatus	D15	122+
Ornaments		
Design	D 2	263
Pins	132	57.1+
Design	D11	209
Stickpin	D11	47
Protective packing	206	9+
Racks	211	30+
Design	D 6	315+
Receptacles	206	8+
Safety helmet	D29	12+
Sewing	112	12+
Methods and seams	112	263.1
Shower cap	D 2	510+
Try on linings	2	63
Wires making	140	77
Hatch		
Building	52	20
Closure operators for	49	324+
Elevator	187	62+
Fasteners	292	256.5
Freight car	105	377
Ship	114	201R+
Hatchets	30	308.1+
Carrier	224	234
Design	D 8	76
Making		
Dies	72	470+
Processes and blanks	76	103
Hatpin	132	57.1+
Non ornamental	D11	207
Protective packing	206	9+
Stickpin	D11	47
Hauling (See Pull)		
Cables drum type	254	266+
Hawks, Masonry and Concrete	294	3.5
Hawse Pipes	114	179+
Hawsers (See Rope)		
Hay		
Handling		
Bale accumulator, vehicle carried	414	111
Curing and preserving	426	321+
Distributors	414	25
Forks	294	107+
Grapples expanding pivoted	294	98
Grapples fixed and movable jaw	294	105
Grapples pivoted jaws	294	107+
Harpoon	294	126+
Hay retainer for vertically swinging fork	414	721
Hoist line fork	294	120+
Load binders	280	180
Pitch forks	294	55.5+
Round bale	414	24.5
Stack shapers	414	132
Hayracks		
Brakes for	188	14
Self-loading movable car	414	522
Vehicle body	296	6+
Convertible box and	296	11+
Pelleters	100	
Hcg	436	818*
Head		
Brake		
Beam adjustable head	188	219.6+
Beam combined	188	219.1+
Beam fixed head	188	222.1+
Shoe fastener	188	236
Shoe fastener interlocking	188	242+
Coupling		
Animal draft D type	278	72+
Animal draft L type	278	67
Animal draft T type	278	68+
Animal draft whiffle tree	278	105+
Railway draft cushioned	213	18+
Railway draft link or bar	213	182+
Rod to base plate or head	403	187+
Through intermediate member	403	187+
Tool handle fastening plate	403	
Tool handle fastening split	403	302
Covering with light	362	105+
Drum musical	84	414
Gear telephone	379	430
Implement and tool		
Brush	15	171+
Hand fork and shovel pivoted and adjustable	294	53.5
Mop	15	228+
Plow rotary chopper	172	518+
Razor handle	30	89
Internal combustion engine cooling	123	41.72+
Multiple for bolt		
Hooked end	292	116+
Sliding	292	156+
Sliding and rotary	292	59
Sliding and swinging	292	68
Spring arm	292	91
Swinging	292	213+
Swinging and hooked end	292	56
Nail, spike or tack	411	439+
Design	D 8	388+
Nozzle		
Sprinkler, fire	169	37+
Prop	248	357
Puller carcass	17	1R
Rail		
Detachable	238	143+
Joint	238	221+
Reversible	238	133
Rudder	114	169
Screw machines for working on	10	5+
Sewing machine	112	259
Shampooing apparatus	4	515+
Spar ship	114	94
Stock lathe	82	142+
Toy	446	397+
Tripod	248	177+
Trolley electric	191	59+
Valve		
Cooperating seat	251	333+
Cooperating stem	251	84+
Rotary plug	251	309+
Structure	251	356+
Swiveled	251	88
Well casing	166	75.1+
Headboards and Sections		
Bedstead extension	5	183
Bedstead folding	5	178+
Bedstead upending	5	148
Invalid bed	5	67+
Sofa	5	53.1+
Headed Fasteenings	411	500+
Making	10	
Header		
Boiler	122	
Harvester	56	
Manufacture	29	890.52
Radiator	165	153
Heading (See Forging)		
Barrel	147	6
Bars by upsetting	72	470+
Bolts	10	11R+
Cartridge cases	29	1.31
Filling combined	141	73+
Filling combined	141	115+
Nails	10	47+
Cut	10	28+
Wire	10	43+
Pins	163	6
Glass headed	65	142+
Rivets	10	11R+
Screws making	10	2+
Sheet metal cans	413	26+
Apparatus for making	413	69+
Soldering apparatus	228	
Headlight		
Dirigible	362	62+
Sealed beam	313	113+
System electric	315	82+
Testing	356	121+
Vehicle	362	61+
Headphones		
Earpieces	381	187
Electrical	381	183+
Supports	381	188+
In or under pillow	381	158
Mechanical	181	
Pillow type	381	158+
Radio	455	344
Support for phone	381	205+
With radio	455	149
Headrest		
Bath tubs	4	578
Chair	297	391+
Chair reclining	297	61
Coffin	27	13
Design	D 6	501
(See also)	D 6	601
Shampooing apparatus	4	523+
Sofa	5	52
Water closet	4	254
Headset	D14	205+
Headwear		
Attached hat fastener	132	57.1+
Decorative	2	171+
Design	D 2	509+
Guard and protector	2	410+
Helmet	2	410+
Protective	2	410+
Receptacle	206	8+
Sports	2	425+
Structure	2	171+
Surgical	128	380
Health		
Computer controlled, monitored	364	413.1+
Lamps	128	395
Heap Still	202	210
Hearing Aid	D24	35
Design	D24	35
Ear trumpets	181	129+
Electrical	381	68
Non electrical	181	129+
Dentiphone	181	127
Ear trumpet	181	129+
Stethoscope	181	126+
Stethoscopes	181	126+
Hearing Therapy		
Voice reflector	D24	35
Hearses	296	16+
Design	D12	82+
Heart		
Artifical	623	3
Artery	623	1
Valve	623	2
Energized magnet actuator	251	65
Motor operated by motivating mass	60	516
Pivoted, line condition change responsive	137	527
Cardiac assist device	600	16+
Expansible chamber pump	417	472
Heart cam, register	235	144HC
Heart-lung digest	128	DIG. 3
Pacemaker	128	419P+
Shaped packaging	D 9	315
Hearth		
Cooking	126	12+
Electric furnace		
Arc	373	60
Electroslag	373	42
Glass	373	27
Induction	373	138
Resistance	373	109
Fireplace	126	500
Fenders	126	544

	Class	Subclass
Material heating	432	
Thermolytic still	202	102+
Heat, Heater & Heating (See Furnace; Radiator)	432	
Absorption meters	374	39
Accumulators	165	
By change of state	165	104.15
Ovens having	126	273.5
Regenerators	165	4
Vessels having	126	375
Air		
Automatic temperature regulation	236	10+
Cookstove combined	126	6
Distributing system combined	237	
Fireplace	126	500+
Furnaces	126	99R+
Gas separation combined	55	
Heat exchange	165	
Heated ventilating flue	98	45+
Illuminating burner attachments	126	248+
Nuclear reactors	376	383
Regenerative	432	214+
Stoves	126	58+
Animal or plant husbandry		
Brooders and incubators	119	30+
Electrically heated branding irons	219	245+
Fuel heated branding irons	126	402+
Greenhouses	47	17+
Hot beds	47	19
Orchard heaters	126	59.5
Preventing plant frosting	47	2
Seed testers	47	16
Sterilizing gathered soil	47	1.44
Tree covers	47	22
Waterers	119	73
Apparel forms	223	
Automatic temperature regulation	236	
Heating and cooling combined	165	14+
Heating systems	237	2A+
Automobile	237	28+
Design	D23	324+
Bathtub	4	545
Bedsteads	5	284
Bending metal by heating	72	54
Body	604	113+
Treating material	604	291+
Brooder and incubator		
Automatic temperature control	236	2+
Automatically controlled heating systems	237	3+
Brooder	119	31+
Combined	119	30
Heating systems	237	14+
Incubator	119	35+
Buildings	237	
Burner feed	431	
Cabinet combined	312	236
Carburetors	261	127+
Internal combustion engine	123	543
Chemical	126	263
Closets		
Dry closets	4	111.1+
Collectors, solar	4	461+
Combustion	431	
Computerized or monitored in product manufacturing	364	477
Curing (See 4 note to class 30)	30	
Distillation and cracking	201	
Apparatus	202	
Mineral oils	208	46+
Solid carbonaceous material	201	
Drier	34	
Textile web spreader combined	26	92
Textile web stretcher combined	26	106
Earth	405	131
Earth boring by	175	11+
Earth boring combined	175	17
Electric fuses having	337	182+
Electric railway conduit having	191	27
Electrical	219	
Earth boring by	175	16
Element	338	
Furnaces	373	
Heating gas generator	48	103
Rivet heaters	219	157
Embossing hot die	101	27
Exchange (See radiator)	165	
Agitating with	366	144+
Mortar mixer	366	22+
Cabinet combined	312	236
Combustion products generator	60	730
Distillation apparatus	202	
Distillation processes	201	
Distillation processes	203	
Gas separators having	55	
Gas washers having	261	127+
Gun barrel cooling	89	14.1
Induction heating	219	10.491+
Internal combustion engine	123	41.1+
Mineral oil process	208	347+
Mineral oil stills having	196	134
Nuclear reactor with	376	369
Nuclear reactor with	376	378
Nuclear reactor with	376	391
Nuclear reactor with	376	404
Nuclear reactor with	376	405
Particulate	165	920
Static mold having	249	79+
Temperature control of	236	17+
Tobacco smoking device	131	194+
Fans		
Electric	392	360+
Fire screen or guard		
Fluid screen	110	179
Stove and fireplace	126	544
Fluid fuel burner	431.	
Nozzle per se	239	
Fluid handling systems or devices with	137	334+
For glass manufacturing		
Apparatus	65	355
Discharge nozzle	239	128+
Freight car heaters	105	451
Fume		
Generators	422	305+
Furnace, solid or combined fuels	110	
Garments & bodywear (See body, heaters and warmers)		
Boot or shoe	36	2.6
Electrically heated	219	211
Heat exchanger	165	46
Therapeutic body member inclosing	128	402
Therapeutic body wear	128	379+
Gas & liquid contact apparatus	261	DIG. 31
Heaters and condensers	261	DIG. 32
Heaters, spray	261	DIG. 33
Gas manufacture		
Chemical purification	423	210+
Heating and illuminating	48	
Gun	89	1.12
Hair curling straightening or treating		
Drying apparatus	34	96+
Drying processes	34	3
Heated brushes	15	160
Heated combs	132	118
Process	132	211
Heat or cooling, conveyer act	198	952*
Heat pump, reversible	62	324.1+
Automatic	62	160
With supplemental heat source	165	29
Heat storage control	165	18
Heater submerged in liquid	261	DIG. 29
Heating equipment	D23	330+
Heating systems	237	
Humidity regulation	236	
Immersion type	126	367+
Fluid fuel	126	360R
Insulating and screening	52	
Alkali metal silicate compositions	106	600+
Bifurcated garments	2	81
Bottles	215	12.1+
Cement compositions	106	672+
Ceramic compositions	501	94+
Compositions miscellaneous	252	62
Flatiron	38	89
Head protectors	2	7+
Laminated fabric making	156	
Miscellaneous plastic or coating compositions	106	122
Safe doors	109	65
Safe walls	109	78+
Stock material	428	920*
Toaster or broiler	99	401
Internal combustion engine charge	123	543
Leather sewing machine	112	41
Liquid	122	
Automatic temperature control	236	20R+
Automatically controlled heating systems	237	2R+
Concentrators	159	
Cookstove combined	126	38+
Discharge nozzle	239	128+
Distillation	203	
Distributing system combined	237	
Electric	392	441+
Fireplace	126	513+
Heat exchange	165	
Heated street oilers	239	128+
Heating system combined	237	
Hot air furnace combined	126	101
Liquid separator heated	210	175+
Open type	126	344+
Pressure generators	122	
Radiator and boiler combined	237	16+
Range fluid fuel water back	126	53+
Range water back	126	34+
Solar	126	417+
Textile washing apparatus combined	68	15+
Liquid separators or purifiers	210	175+
Dispensers with heater	222	146.2+
Dispensers with heating jacket	222	131
Dispensers with illuminator or burner	222	113
Distillation apparatus containing	202	
Mortar mixers	562	625+
Portable receptacle fillers	53	127
Solid material comminution combined	241	
Lubricators having	184	104.1
Material heating	432	
Material treating (See material treated)		
Coating, baking or drying	427	372.2+
Driers	34	
Electrolyte	204	
Electrolytic coating	204	37.1+
Fertilizer	71	44+
Foods	99	
Ozonizers	422	186.8+
Peat fuel	44	492
Road or pavement material	404	93+
Solids separators	209	
Tobacco	131	290+
Water purifiers	210	177+
Mattresses	5	421+
Measuring and responsive instruments		
Calorimeters	374	31+
Electrothermal switches	337	14+
Heat responsive metal stock	428	616
Hygrostats	73	335+
Thermal batteries	136	200+
Thermometers	374	147
Thermostatic switches	337	298+
Metal		
Agglomerating processes	75	746+
Casting apparatus with	164	338.1
Deforming with heating or cooling	72	
Electric heating	219	50+
Electric heating working and welding	219	50+
Electrolytic coating heating	204	37.1+
Founding	164	
Heat treatment	148	
Metallurgical apparatus	266	
Miscellaneous heating	432	
Pyrometallurgy processes	75	414+
Rolling and heating	72	200
Rolling and heating	72	252
Soldering apparatus	228	
Working with	29	DIG. 21
Working with electric heating	29	DIG. 13
Nozzle combined	239	128+
Pile installation combined	405	234
Pipe	165	104.15
Electrical apparatus combined	174	15.2
Pipe joint	285	41
Power plant combined	60	
Engine heated vehicles	237	12.1+
Processes	432	1+
Producing compositions	252	70
Fuel	44	
Pump	62	324.1+
Register or diffuser	D23	308+
Resolving colloids by	252	346+
Sealing wax applier	401	1+
Searing		
Leather	69	7.5
Seat combined	297	180
Separator, imperforate bowl centrifugal	494	13+

	Class	Subclass
Shields for aircraft	244	117R+
Shields, general	244	158R
Shoes having hea or	36	2.6
Single room heater	D23	330+
Sink	165	
Design	D13	179
Ventilation	174	16.3
Snow excavator and melter	37	227+
Solid fuel burners	110	
Special ray generator combined	250	495.1
Stabilized (See synthetic resin or natural rubber, class 523, 524)		
Sterilizing	422	
Fume generators	422	305+
Stoves	126	
Design	D23	342+
Surgical	604	113+
Systems	237	
Electric	219	482+
Temperature & humidity regulation	236	
Tents having	135	92
Textiles or strands		
Heating or drying threads	28	217+
Singeing textiles	26	3+
Web spreader combined	26	92
Web stretching combined	26	92
Tools and instruments		
Apparel forms	223	
Branding iron	126	402+
Brushes	15	160
Coating implement combined	401	1+
Cutlery	30	140
Dress or coat forms	223	70
Electrically	219	221+
Flatirons	38	82+
Glove forms	223	79
Hair combs	132	118
Hat forms	223	26
Ice cutter	62	320+
Rolls	126	410
Shoe formers	12	129.4
Soldering irons	228	51+
Sterilizer for	422	
Stocking forms	223	76
Tool heating stoves	126	226+
Tools self heated by fluid fuel	126	401
Tools self heated electrically	219	221+
Trouser or sleeve forms	223	73
Windshield cleaners	15	250.5
Track sanders having	291	19+
Transfer mediums	252	70
Expanding or vaporizing type	252	67+
Low freezing or high boiling point	252	71+
Tray heaters	261	DIG. 3
Treating by induction	219	10.41+
Apparatus	219	6.5+
Treatment of metals	148	
Vaporizers	122	
Vehicle systems	237	28+
Power plant combined	237	12.1+
Vulcanizing combined	425	28.1+
Vulcanizing combined	425	340+
Vulcanizing combined	425	363
Welding with heat	228	
With heat and pressure	228	228
Wells		
Electric heaters	392	301+
Having heaters	166	57+
Processes using heat	166	302+
Solid material recovering	299	
Heat Producer		
Flameless composition	44	250+
Hecogenin	540	19
Hectograph	101	131+
Compositions	106	14.5
Flies, work holder for	101	463.1
Coating processes	427	144
Transfer sheet	428	914*
Paper	428	488.1
Processes	101	463.1
Heddle		
Making		
Cord	29	4.6
Wire	140	72
Needle winding	242	51
Structure	139	93+
Doup	139	52
Hedge		
Fence	256	20
Training	47	4
Trimmer	56	233+
Heel		
Clamping work supports	12	125
Cushioned horseshoes	168	15
Cutting machines		
Die cutting	83	
Heel lifts for shoes	D 2	323
Interfitted sole and	36	24.5
Lasts		
Plates and sockets	12	139
Separate heel block	12	135R+
Punching machines	83	
Shoe	36	34R+
Design	D 2	323+
Heel engaging shoe retainers	36	58.6
Protectors	36	73+
Supporters	36	69
Shoemaking machines	12	42R+
Burnishing	12	70+
Edge trimmers	12	85+
Heel seat forming	12	31.5
Loading	227	125
Nailing	227	140+
Plate attaching	227	
Stiffener	12	61R+
Shoemaking processes	12	147R
Skate attaching clamps	280	11.31+
Spring with soles	36	27
Straps for horseshoes	168	22
Heelless:		
Overshoes	36	7.2
Rubber overshoes	36	7.4
Sandals	36	7.7
Helical (See Gearing)		
Bed spring connectors	5	269
Brass music instrument valve movemen	84	391
Course		
Amusement ride	104	56+
Filled receptacle cooker	99	365
Textile liquid treatment	68	176
Nuclear fuel structures	376	362
Pump interengaging rotary impellers	418	201.1+
Rotary pump dipping channel	415	88
Springs	267	166+
Torsion	267	155+
Switch	200	500
Track sander feeder vertical plunger guide	291	37
Traction railway	104	167
Helicopter	244	17.11+
Airplane combined or convertible	244	6+
Airship combined	244	26
Rotor	416	
Blade positioning means	416	147+
Blade structure	416	223R+
Motor combined	416	20R+
Toy	446	230+
Flying	446	37+
Heliographic Code Signaling	116	20
Heliostats	353	3
Heliotropine	549	436
Helium (See Gas, Rare)		
Isolation by physical processes	55	66
Apparatus for	55	
Liquefaction	62	11+
Refrigeration apparatus for	62	36+
Speech	381	54
Helix (See Screw; Thread)		
Electrical resistance	338	296+
Rheostat	338	143+
Type product		
Static mold	249	59
Helmets	2	410+
Aviators	2	6
Design	D29	12+
Diving with air or oxygen	128	201.27+
Firemans	2	5
Hood type	2	205
Illumination combined	362	105
Miners hat	362	164
Military	2	6
Space suit	2	2.1 A
Sports headgear	2	425+
Helmitol	544	185
Hemocytometers		
Colorimeter type	356	39
Microscope type	356	39+
Hematin	540	145
Hemmers Sewing Machine	112	141+
Hemocytometer (See Haemocytometer)		
Hemoglobin	540	145
Tests for	436	66+
Hemoglobinometer	356	40+
Hemostatic Devices	606	
Artery or vein	606	157
Umbilical	606	120
Hemstitch		
Machine	112	81+
Fake	112	179
Heparin	536	21
Medicines containing	514	56
Heptode		
Mixer	313	300
Pentagrid converter	313	300
Triode	313	298
With two cathodes	313	6
Herbicides	71	65+
Hermetic Sealing		
Closing portable receptacles	53	285+
Gas filling of portable receptacle, method	53	403+
Glass uniting processes	65	36+
Metallic receptacle closures	220	200+
Soldering apparatus	228	
Hernia Pads	128	112.1
Heroin	546	44
Hertzian Wave (See Radio)		
Railway signal systems	246	30
Transmission line systems	333	
Hetacillin	540	325
Hetacillin	540	325
Heterocyclic Compounds	540	1+
Azo compounds	534	751+
Heavy metal ctg	534	701+
Silver sensitized formation in color photography development	430	376+
Bio-affecting & body treating composition	424	
Wave energy preparation	204	157.69+
Heterodyne Frequency Measurement	324	79R
Heterodyne Receiver	455	130+
Hevea (See Synthetic Resin or Natural Rubber)		
Hexachlorocyclohexane	570	212
Hexachlorophene, in Drug	514	735
Hexamethylene Tetramines	544	185+
Hexestrol	568	729
Hexode Triode	313	298
Hexylresorcinol	568	766
Hides Skins and Leather		
Biocidal saturant for	424	
Chemical or fluid treatment	8	94.1 R+
Manipulative	8	150.5
Coating	427	
Compositions for treating	252	8.57
Deliming	8	94.17
Dyeing	8	436+
Electrolytic treatment	204	135
Manufacture	69	
Removing fat	8	139+
Tanning	8	94.19 R+
Treatment of	8	94.1 R+
High Altitude Compartments		
Aircraft cabin	98	1.5
Aircraft power plant	244	59
High Energy Metal Forming	72	56
High Frequency		
Coaxial cable	333	239+
Triode	313	293+
High Frequency Heater (See Induction, Heating)		
High mu Triode	313	293+
Highchair		
Childs furniture	D 6	329+
Tray	D 6	396+
Highway	404	
Crossing railway signal automatic	246	293+
Electric	246	125+
Guard		
Fence	256	13.1
Pipe or cable bracket	248	66
Guide or barrier	404	6+
Track combined	238	8
Track for nonflanged wheel	238	3+
Traffic director	404	9+
Hilling and Hill Planting	111	
Ridging and covering plows	172	642
Hinge or Hinged Joint (See Device Hinged)	16	221+
Adjustable	16	235+
Belt fastener	24	33R+
Breakaway	16	222

	Class	Subclass
Check and closer combined	16	50
For nuclear reactor moderator structure	376	285
Liquid check	16	54+
Pneumatic check	16	68
Design	D 8	323+
Flaccid closure mount	49	147
Flask sections	164	391+
Headlight hinge	16	DIG. 26
Magnetic	16	DIG. 14
Making assembly or mounting		
Metal	29	11
Wood seat cutting	144	27
Nesting hinge leaves	16	DIG. 29
Pipe joints	285	273
Detachable	285	283
Pivotal sheet retainer	402	26+
Plastic	16	DIG. 13
Rod	403	119+
Adjustable angle	403	83+
Rubber sleeve bearings & hinges	16	DIG. 33
Separable	16	254+
Snap-hinge	16	227
Spring	16	277+
Stepladder	182	174+
Stop	16	374+
Stove door	126	194
Toilet seat	4	240
Cover combined	4	236
Tool handle fastenings		
Adjustable angle	403	84+
Freely swinging	403	52+
Watchcase	368	313
Windshield	296	92
Hinged		
Closures	49	381+
Barrel	217	83
Bottom opening hopper vehicle	298	29+
Building shutters	49	381+
Dispenser	222	556+
Drawbridge gates	14	50+
Fence panels	256	26
Flexible and portable	160	
Gates	49	
Lockets	63	19
Metallic receptacle	220	334
Oil cup	184	90+
Operators for	49	324+
Paperboard box	229	125.8+
Purse	150	119
Railway car dumping	105	280+
Ship port	114	178
Spectacle case	206	6
Vault road or pavement	404	25
Vehicle windows and doors	296	146+
Vehicle windshields	296	86+
Vehicle windshields hinges per se	296	92
Windows sliding and swinging sash	49	208+
Windows swinging sash	49	381+
Wooden box	217	57+
Devices		
Base for folding camera	354	192+
Bed combined	5	2.1+
Bellows for roll type camera	354	194
Binder device releasably engaging aperture or notch of sheet	402	
Bracelet multiple	63	9
Bracelet single	63	7+
Buttons and fasteners hinged leaf	24	97+
Calendars hinged leaves	40	119
Card holding clamp	40	647+
Changing exhibitor	40	446
Display items	40	530
Endless type signs	40	524
Cultivator center	172	617
Cutter frame for combine	56	125
Demountable wheel rims sectional	301	32
Drawbridge bascule	14	36+
Extension ladder	182	163+
Extension table	108	65+
Fluid fuel water heater	126	357
Folding bedsteads	5	174+
Folding table	108	115+
Freight car sectional deck	105	372
Garment stays	2	262
Horseshoes sectional	168	7+
Invalid beds	5	60+
Ironing table with supports	108	115+
Lamp shade etc drop support	362	451
Lister type cultivator laterally hinged	172	640
Lockets	63	19
Movable on horizontal axis	211	169.1
Plow moldboard	172	736
Pneumatic tire rims sectional	152	414
Propped ladder eg stepladder	182	165+
Revolver barrel	42	63+
Scoop type vehicle fender	293	44+
Screw threading die stocks	408	180+
Sectional board ironing	38	139
Sectional mattress	5	465
Sectional scows	114	29
Shoe lasts	12	136R
Sleeping car berths	105	321
Slice toaster or broiler grids	99	402
Sofa beds	5	32.1+
Surgical splints	128	88
Upending bedsteads	5	133+
Waffle iron type cooker	99	380+
Wall supported table	108	134+
Weather strips	49	475+
Hip artifical	623	22+
Hippuric Acid	562	450
Histidine	548	344
History, Teaching	434	154
Hitching		
Animal restraining devices	119	109+
Posts design	D30	154
Harness type straps	54	34
Holders	54	64
Hitching post	D30	154
Vehicle attachments	280	186+
Hive		
Bee	449	3+
Connectors	449	27+
Hmx	540	475
Hobbing	409	11
Hobs	407	23+
Hobby Horses	272	52+
Hockey Stick	273	67R
Hod		
Household bin sifter	209	376
Masons	224	44.5
Endless elevator for	198	803.3+
Receptacle with pouring lip	222	572
Hoe	172	371+
Design	D 8	11
Making		
Dies	72	358+
Processes and blanks	76	109
Sausage stuffers	17	35+
Scraper	30	171
Weeder combined	172	375
Hog		
Cholera antigens and sera	424	88+
Oiler	119	157
Scalders	17	15
Scraper combined	17	13+
Scrapers	17	16+
Singers	17	20
Hoist & Hoisting (See Elevator; Lift)		
Alarms for	116	68
Arc lamps	248	317+
Automobile lift	269	58+
Building with	52	122.1+
Cable drum type	254	266+
Derrick	254	283+
Design	D34	33+
Endless or rotary carrier combined	414	564
Fire escape	182	141+
Lateral traverse combined	182	12+
Forklift truck ramp design	D12	
Hoist line implements	294	
Inclined for blast furnaces	414	208
Receptacle moved back & forth along incline	414	168
Invalid lift	5	83+
Beds with	5	61
Load handling	414	592+
Load handling type traversing	414	560+
Measuring and testing cables and ropes	73	158
Nuclear reactor control components	376	219
Fuel charging & discharging	376	268
Ordnance loading	89	46
Railway car type	414	391+
Transports from one vehicle to another	414	342
Ramp design	D12	
Skidway combined	414	571+
Sleeping berth vertically movable	105	318
Slings	294	74+
Submerged vessel	114	51
Tilting railway car body	105	273
Traversing	212	
Truck ladder	182	63+
Trucks	254	2R+
Vehicle hoist design	D12	
Vertically adjustable vehicle	280	43+
Vertically swinging load support combined	414	569
Weighing	177	147
Wheel brake one way for	188	82.1+
With weighing scale	177	147
Hoist Line Implements	294	
Hold		
Backs		
Animal draft	278	126+
Breeching	54	5
Hill hold transmission control	192	4R+
Hill hold vehicle	188	82.1+
Hill hold wheel	188	30
Hold-downs	248	500+
Electrophotographic copier	355	230
Food cooking	99	349+
Food cooking filled receptacle	99	369
Freight retaining on freight carrier	410	
Container twist-lock	410	82+
Photocopying of book and sheet	355	72+
Punching machines	83	374+
Punching machines	83	438+
Punching machines	83	451+
Supports for machines combined	248	680
Holder (see Container; Receptacles)		
Animal catching and holding	119	151+
Arc furnace electrode	373	94+
Arc lamps electrode	403	
Article locking racks	211	4
Assembly jig	269	37
Bag	248	95+
Golf	248	96
Bait fishing	43	54.1+
Live bait inclosing	43	41
Design	D22	136
Bicycle article carrier spring	224	37+
Billiard cue chalkers	273	18+
Blind slat	292	345
Body and belt attached cartridge	224	239+
Body or clothing attached article	24	3R+
Book and sheet		
Book leaf	281	42
Book or sheet	281	45+
Camera plate	354	276+
Copy (See copyholder)		
Depository	402	73+
Guides	402	24
Label pasting etc	156	
Leaf	281	45+
Manifolding leaf	282	29R
Music and	248	441.1+
Printing flexible sheet	101	415.1
Sheet feeding	271	8.1+
Stencil	101	127.1+
Typewriter card	400	521+
Boot tree	12	123.5
Brackets	248	200+
Article	248	309.1+
Shelf type	248	250
Brush for dynamo	310	239+
Camera roll	354	212+
Candle	431	289+
Cane	211	62
Card	40	642+
Chain	24	116R+
Cigar and cigarette	131	187+
Design	D27	183+
Wind guard or ash receiver combined	131	175
Cigar tip cutter with	131	250+
Clasp, clip or support clamp	24	455+
Shirt collar	24	900
Cleaner cover	15	247
Closure fastener portable securing bar	292	289+
Coin	206	.8+
Copy (See copyholder)	248	441.1+
Movable copy or line guide	40	341+
Cord rope thread and wire	24	115R+
Fabric delivery roll	242	55.2+
Fishing floats with	43	44.92+
Harness hitching	54	64
Harness reins	54	74
Insulator and conductor embracing	174	154+

	Class	Subclass
Insulator with conductor	174	168*
Measuring and dispensing	33	732*
Piano bridge	84	214
Piano bridge on sounding board with	84	213
Sash cord slack	16	208
Spooled strand material	242	134*
Textile spinning apparatus	57	353
Textile spinning receiver with	57	131
Twine unwinding	242	141*
Tying cords or strands	289	
Cutlery and combined material	30	124*
Dental dam	433	138*
Dental floss	132	323*
Design garment or belt attached	D 3	100*
Hunting or fishing	D 2	14
Dispenser handle and spout	222	475
Ear corn	294	5
Electric lamp etc consumable electrode	314	130*
Fluid diffusers	239	34*
Fluid supply and combined hose	137	355.16*
With nozzle	239	195*
Flypaper	43	115
Garment and fabric		
Article supporting	24	3R*
Bed attached bedclothes	5	498
Bed attached pillow sham	5	498
Bedclothes	24	72.5
Chair attachments	297	190
Closure panel elongated element	160	383*
Closure panel frame type	160	371*
Clothespins (See clothespin)		
Connected substantially spaced plural garment	2	304*
Cuff	24	41*
Drying continuous strips edge	34	158
Drying sheets etc movable	34	163
Garment type combined	2	300
Garment type convertible or reversible	2	301
Garment type elements	2	336*
Garment type partially encircling limb or torso	2	309
Garment type plural encircling	2	308
Garment type strip connected spaced	2	323*
Garment type suspension and encircling	2	310
Glove and fur sewing work	112	18*
Looped fabric sewing work	112	27
Napkin	138	177
Necktie	24	49R*
Rack for paper or textile sheets	211	45*
Rigid vertical type	2	302*
Skirt lifter and	2	217
Sorting rack bag	211	12
Stacked article type rack	211	50*
Torso or limb encircling	2	311*
Towel service cabinet	312	37
Vehicle lap robe	296	77
Work manipulating sewing machine	112	148
Gear cutting, milling, planing	409	903*
Hair		
Combs	132	219*
Mustache	132	215
Handling type weigher	177	148*
Hatpin point guard	132	72.1
With guides	132	69.1
Hollow wound package liquid treating	68	198
Hot dish lifting	294	27.1*
Illumination lens	362	455*
Implement and machine parts (See mandrel)		
Apparel making	223	106*
Axial metalworking tools and movable slide rest	29	52*
Bobbin winding or unwinding	242	130
Bolt	81	13
Brush and broom	15	146
Brush bristle	15	206
Can head seaming roller	413	31*
Chucks or sockets	279	
Cigar making machine with wrapper feed or holder	131	36
Cigar wrapper	131	105
Coil winding or unwinding	242	129
Compound tools	7	167*
Cutlery blade detachable	30	329*
Drill	408	238*
Electric generator and motor brush	310	239*
Engine starter handle	74	551
Fabric reeling or unreeling	242	68*
Illuminating lens	362	455*
Machine tool cutter mount	407	66*
Machine type wrench with bolt	81	55*
Main tapping multiple tool	408	31*
Manicuring file etc with separable	132	76.5
Mechanical gun projectile	124	41.1*
Metal deforming die	124	41.1*
Metal file and rasp	29	80
Metalworking turret with rotary	29	40
Metalworking turret with sliding	29	41
Mirror	52	
Map	15	147R*
Multiple metalworking tools oscillating	29	56
Pivoted clasp handle engaging	24	489*
Razor with sharpener	30	37*
Reciprocating abrading machine	51	68*
Reciprocating wood saw	83	783*
Rectilinearly movable multiple metalworking tools	29	54*
Rotary reciprocating abrading machine	51	47
Saw making file	76	36
Screw driver attachments	81	451*
Sewing machine attachment	112	257
Sewing machine bobbin	112	231
Sewing machine shuttle	112	196
Sheet punching machine die	83	651
Skein winding or unwinding	242	127
Socket wrench with nut	81	125
Sound box stylus	369	160
Sponge	15	244.1*
Having pivoted handle	15	244.2
Spool winding or unwinding	242	134*
Spring drum type article	242	107*
Stationary metalworking tools and movable work	29	51
Tool handle fastenings	403	
Type casting mechanism matrix	199	49
Wiper dauber and polisher sheet	15	231*
Insect poison	43	131
Key	70	456R*
Music keyboard	84	441
Light guard and	362	376
Live bait inclosing	43	41
Design	D22	136
Lock tumbler	70	328
Permutation compound tumbler	70	317
Nuclear fuel	376	434
Packet	24	17R*
Pencil	401	88*
Penholders	15	435*
Phonograph record	312	9*
Photographic plate	354	276*
Roll film	354	212*
Picture	40	152*
Support type	248	488*
Support type	248	490*
Piles arrangements spacers for	206	
Pocket and personal use	206	37*
Ticket	206	39
Racks	211	
Bridles, saddles, whips, design	D30	143
Radioactive body treatment	600	7*
Receptacle		
Acetylene carbide feed	48	38*
Acetylene generator and	48	2
Acetylene water feed	48	4*
Animal cage food and water	119	18
Article carrying tray	294	172
Bait or catch	43	55
Blacking box	15	259
Blood	604	403*
Boiler or deep fat fryer	99	403*
Brush and blacking box	15	258
Camera with storage for plate	354	174*
Closet bowl disinfectant	4	222*
Closure remover with receptacle	81	3.8
Collapsible wall dispenser with	222	105
Cover containing a	220	521*
Dispenser with cutter and	222	81*
Dispenser with support or	222	173*
Extracting or leaching	422	261*
Fishing hook and tackle	43	54.1*
Flower	47	41.1*
Handle	220	96
Handle containing a	16	110.5
Heating and illuminating gas	48	174*
High pressure gas	220	3
Inkstand	248	127*
Dispenser type	222	577
Insect poison	43	131
Inverted container drainage	141	364
Match and toothpick	206	102*
Matchbox	206	121*
Mattress filling bat holder	53	255*
Medicating inhaler gas	128	203.12*
Medicator	604	403
Motor vehicle battery	180	68.5
Plural source dispenser stacking	222	143
Racks for	211	71*
Rotatable assembly of dispensers	222	144
Spittoon flexible material and	4	285
Spray fluid	239	302*
Rein	54	74
Design	D30	141
Whip socket combined	280	177
Scale load	177	253*
Handling type weigher	177	148*
Sleeping car article	105	325
Stringed music instrument with article	84	329
Tail	54	78
Cow	119	105
Telephone	379	453*
Tobacco ash receiver with Cigar cigarette or smoking device	131	240.1*
Match	131	239
Tooth	433	141*
Tops with spinning devices	446	262*
Train dispatching safety system signal	246	16
Vacuum-operated load engagers	294	64.1*
Vacuum-type holding means	269	21
Valve head	251	89*
Friction detent	251	297
Vehicle	280	182*
Hand lantern	362	61*
Rein	280	182
Vehicle attachment	280	182*
Washboard soap	68	224
Washing machine transferable clothes	68	10
Welding electrode	219	145.1*
Wheel	157	14
Work (See mandrel)	269	
Abrading	51	216R*
Abrading work rests	51	238R*
Abrading work tables	51	240R
Ammunition shell loading	86	44
Apparel apparatus	269	
Book typewriter	400	24*
Boring machines	408	
Brush boring	408	89*
Brushing scrubbing cleaning	15	268
Brushmaking	300	10*
Butchering	17	44*
Can opener	30	400*
Capping nail and screw making	10	158
Chain welding	59	34*
Circular saw	83	409*
Cleaning and liquid contact with solids	134	137*
Collapsible structure	269	901*
Door	269	133
Drilling machines	408	
Electric heating	219	158*
Electrolytic apparatus	204	297R
Feeding stock combined	29	56.6
Forging machines	269	
Gear cutting milling and planing	269	
Glove and fur sewing	112	18*
Hair dryers	34	101
Hair shampooing apparatus	4	515*
Hat sewing machines	112	13*
Horseshoe nail finishing	10	39
Immersion scouring rotary	51	19
Ironing	38	64
Ironing table	38	103*
Leather manufacturing	69	19
Looped fabric sewing	112	27
Magnetic	335	285*
Manual sewing	269	
Meat blocks	269	289R*
Metal working	269	
Metalworking multiple tool laterally moving stock	29	51

	Class	Subclass
Mortising	144	84
Ordnance cartridge feeding	89	34
Photographic washing	354	297*
Printing	101	407.1*
Reciprocating abrading machine	51	64*
Rotary	51	31
Rivets for riveting	72	457*
Rotary abrading one way work traverse	51	74R*
Rotary abrading opposed tool	51	80R*
Rotary tool abrading	51	109R
Radial face	51	109R
Reciprocating holder	51	91R
Stationary holder	51	98R
Sand blast abrading moving	51	417*
Sawmill	83	720*
Screw head nicking	10	6
Screw threading machine	408	103*
Sewing machine	112	260
Sheet metal ware making	269	
Shoe machines nailing	227	154*
Shoe machines sole sewing	112	62
Shoe machines soleing	12	36*
Shoemaking	12	123
Stationary axis milling cutter rotating holder	409	165*
Stationary tool abrading	51	150*
Stationary vegetable grater	241	273.1*
Grater reciprocating holder	241	84.4
Stenciling	101	126
Stoneworking	125	35
Vices	269	
Wheel spoke setters	157	4
Wire nail making	10	52
Wood planing beveling	144	114R*
Wood sawing	83	409*
Wood shaping rotary holder	144	153
Wood turning	142	57
Wood turning	142	48
Wood turning polygonal section	142	2*
Wood turning steady rests	142	50
Wood turning tool and	142	48
Woodworking bench dogs	144	306
Woodworking benches	144	286R
Woodworking clamps	269	
Woodworking lath	144	288.5*
Woodworking machine clamps	144	278R
Woodworking stands	269	289R*
Work rotating abrading machine	51	103R*
Work specific	269	909*
Wrought horseshoe nail making	10	69
Wrought spike making	10	60
Holdover, Refrigeration	62	430*
Accumulation in situ	62	59
Automatic	62	139*
Hole		
Puncher, paper	D19	72*
Punches	83	
Holiday Season Decoration	D11	117*
Hollow Article		
Block wall	52	561*
Blocks	52	576
Forming passage	52	503*
Laterally related	52	561*
Void former	52	577
With passage	52	606*
Cast barrier	52	380*
Static mold	249	22
Drying		
Apparatus	34	104*
Billet piercing	72	327
Coating	427	230*
Coating by electrolysis	204	25*
Cooking apparatus	99	
Die expressing plastics	425	378.1
Electroforming	204	9
Handles for cutlery	76	106
Process	34	21
Insulated wall	52	404*
Projectile making	29	1.21
Rope machine	57	33
Sheet metal container making	413	
Making by extrusion metal	72	264*
E.g., can	100	
Making by powder metallurgy process	419	5
Stud wall	52	479*
Holograms & Holographic Systems	350	3.6
Memories, electric	365	125
Radiation imagery process	430	1*
Holsters		
Design	D 3	101*
Handgun	224	193
For either side of torso	224	192
Leather or flexible fabric	224	911*
Metal or rigid material	224	912*
Rotatably or swingably attached	224	198
With closure flap	224	238
With gun positioner	224	243
Knife, bayonet, sword, ice pick	224	232*
Shoulder holster	224	206
Hometropine	546	131
Hominy Mills		
Grain hullers	99	600*
Solids comminution	241	
Homogenizing		
Agitator	366	
Colloid making	252	302*
Comminuting solids	241	
Equipment design	D 7	377
Foods	99	
Restrictor for	138	40*
Homokinetic Coupling	464	904*
Homopolar Dynamoelectric Machines	310	178
Hones	51	211H*
Honey		
Bee culture	449	
Centrifugal separator	210	361*
Modified or artificial	426	658*
Honeycomb (See Article by Name)		
Dunnage	410	121
Foundations	449	44*
Frames	449	42*
Stock material	428	116*
Metal	428	593
Structure for containers	493	966*
Hood		
Actuated by tool or work approach	29	DIG. 59
Automobile	180	69.2*
Combustion air vents	180	68.1*
Design	D12	173
Hinge	16	355*
Lock	70	240*
Conveyor discharge	198	637
Curtain shade or screen combined	160	19*
Design (See headwear)	D 2	256
Encased cutter	29	DIG. 86
Eye shields	2	10*
Fireplace	126	550
Flash powder light	431	364
Fluorescent and phospharescent devices	250	492.1
Focusing camera	354	287
Garment combined	2	84
Head covering	2	202*
Metal working with shield or hood movements	29	DIG. 56
Progressive displacement of	29	DIG. 6
Stove	126	299R*
Design	D23	371*
Telephone	379	453
Ventilating	98	115.1
Woodworking cutter	144	252R
Hoof		
Calks	168	29*
Sharpening tools	168	46
Cleaners and trimmers	168	48.1*
Expander	168	47
Farriery	168	
Gauge	33	195
Hoof crack remedy	606	212
Pads	168	26*
Design	D30	149*
Shoes	168	4*
Design	D30	147*
Hook (See also Connection)	24	698.1*
Attaching		
Belt hook inserting	29	243.51
Lacing	227	51*
Sewing machine	112	105*
Bicycle carrier	224	42
Bolts hooked end	292	95*
Cant hook hand bar	294	17
Carpet fastener	16	6
Carrier by hand	294	137*
Chatelaine safety	24	4
Clasp combined	24	343*
Cuff holder	24	45
Curtain hook	D 8	367*
Cutter combined	7	161*
Design	D 8	367*
Apparel	D11	208*
Curtain	D 8	367*
Draft couplings		
Animal	278	
Railway	213	78*
Eye and	24	698.1*
Design	D11	208*
Relatively movable hook portions portions	24	598.7*
Fish	43	43.16*
Design	D22	144
Gaff combined with tackle	43	5
Making	29	9
Trap hook	43	34*
With artificial bait	43	42*
Hand	294	26
Hardware, eye &	D 8	367*
Harness		
Checkhooks	54	61*
Checkrein loop	54	17
Design	D30	138*
Traces	54	55
Hat fastener rotary	132	62
Hoist line	294	82.1*
Knitting	66	3*
Lacing fastening	24	713.9
Lacing stud	24	713.9*
Ladder extensible step	182	209*
Ladder suspension	182	206
Log turner	83	710*
Chain combined	83	710*
Making		
Fish	29	9
Metal	29	7
Wire	140	80*
Napkin	24	8
Necktie	24	65
Obstetric tractor	606	121
Pelican	294	82.24*
Picture or mirror support	D 8	373*
Hook or eye	D 8	367
Pin combined	24	351*
Pipe joint		
Duplicate end	285	70*
Pipe to plate	285	191
Rail fastening	238	355*
Rod joint		
Socket combined	403	301
Sash cord	16	206
Separable hinge	16	260
Snap	24	598.4*
Tag label check fastener	40	667
Submarine	294	66.1*
Supports		
Bag mouth holder	248	100
Bracket having	248	290
Bracket having	248	294
Bracket having	248	301
Bracket having	248	303
Bracket having	248	304*
Clamped to	248	227
Faucet engaging	248	213
Horizontal rod engaging	248	215
Ladder engaging	248	211
Overhead beam	294	85
Penetrating	248	216.1*
Rod to radiator	248	234
Suspended	248	322
Suspended	248	339*
Tackle	294	82.11*
Telephone receiver switch	379	426*
Hookahs	131	173
Hoop		
Barrel	217	91*
Coopering		
Drivers	147	7*
Machines	147	43*
Truss	147	49
Embroidery	38	102.2
Making		
Metal	29	7
Wood by bending	144	258
Wood by sawing	83	425*
Sail	114	113
Skirts	2	216
Design	D 2	223*
Design frame	D 2	699
Making	223	6
Toy	446	236*
Rolling	446	450*
Hopper (See Magazine)		
Discharge		
Bottom forming conveyor	198	550.1

	Class	Subclass
Discharge to gravity section	198	550.1+
Gravity discharge holder	198	540+
Dispenser	222	
Dumping land vehicles	298	24+
Dumping railway car	105	247
Flat convertible to	105	243
Feeding and feeder		
Animal	119	52.1+
Animal, design	D30	121+
Article	221	
Bag filling	53	570+
Cigarette tube	131	74
Filler tobacco or bunch	131	44
Furnace charging bell and	414	204
Furnace fuel	110	108+
Furnace fuel blower	110	105
Match dipping frames	144	64
Rotary drying drum external type	34	112
Sifter	209	244+
Static mold having	249	108
Tobacco for cigar etc making	131	108+
Track sander	291	38+
Track sander with jet in	291	18
Track sander with oscillating	291	30
Wood slicing	144	180
Planting combined		
Auxiliary frame hill type	111	24
Dibble with revolving	111	90+
Floating auxiliary frame	111	63+
Revolving	111	74
Vibrating	111	75
Power driven conveyor combined		
Bottom forming	198	550.1
Chute and	198	568+
Discharge for	198	523+
Feeder	198	523+
Plural conveyors	198	570+
Hopples	119	126+
Slings combined	119	100
Hops and Hopping	426	11+
Apparatus	99	278+
Plants	PLT	89
Stirrer	366	343+
Vine stripper	460	123+
Horizon Artificial	356	248+
Hormones	552	502+
Animal extracts		
Medicines containing	424	520+
Heterocyclic	540	2+
Sex	552	502+
Hormones, Protein	530	399
Horn	D10	120
Antenna	343	786
Ear trumpet	181	129+
Electric	340	388+
Fertilizer	71	18
Fog	116	137R+
Lamp combined	116	3
Loud speaker	381	156
Making by deforming sheet metal	72	
Megaphone	181	177+
Musical instrument	84	387R+
Design	D17	11
Periodic sounding	116	24
Phonograph	369	163
Shield	119	144
Shoe	223	118+
Design	D 2	642
Shoe inseam trimmer	12	4.5
Stringed instrument resonator	84	294
Structure	116	137R+
Toy	446	209
Vehicle	116	59
Design	D10	120+
Horology	368	
Antimagnetic devices	368	293
Balances	368	169+
Clocks	368	62+
Design	D10	30+
Dial trains	368	220+
Dials	368	232+
Dials hands	368	238+
Escapements	368	124+
Invertible, hour glass type	368	93
Parking meter type	368	90+
Pendulums	368	134+
Safety wheels	368	181+
Watches	368	62+
Horse		
Blankets	54	79
Design	D30	145
Boots	54	82
Design	D30	146+
Collars	54	19R
Design	D30	137
Hames combined	54	18R
Shaping	69	3
Stuffing	69	4
Confining and housing devices	119	15+
Detachers	278	21+
Four legged support	182	181+
Unitary foldable	182	153+
Grooming and currying devices	119	83+
With air draft	15	363+
Harness	54	
Powered motor	185	15+
Composite or multiple	185	3
Rake horse drawn	56	375+
Training apparatus	54	71
Horseshoe	D30	147+
Calk	D30	150
Farriery	168	
Making	59	36+
Nail making		
Cut type	10	36+
Wrought type	10	64+
Nails	411	439+
Horticulture (See Plant Husbandry)		
Horticultural tools	D 8	1+
Illumination	362	805*
Hose (See Stocking)		
Alarm system via fluid hose	340	320
Applying and removing	29	235+
Bridge	104	275
Brush or mop combined	401	289
Carrier reel	242	86+
Clamp applier	81	9.3
Clamps	24	19
Cutoff	251	4+
Connections	285	238+
Dispensed material guide	222	527+
Dispensing guide interlock	222	74+
Fire fighting vehicle	280	4
Holder and fluid supply	137	355.16+
With nozzle	239	195+
Liquid level gauge combined	73	294
Making	156	143+
Nozzle	239	589+
Pantyhose	2	409
Protectors	138	110
Structure	138	177
Design	D23	266
Support	248	75+
Supporters		
Fluid conduit or nozzle	248	75+
Plural garment	2	306
Strip connected spaced holder	2	335
Torso or limb encircling	2	311+
Water hose	D23	266
Wheeled hose reels	242	86.2+
Hospital Furniture and Equipment (See Type)		
Hot Air Furnace	126	99R
Hot Bearing Indicator	116	214
Train hotbox	246	169A
Hot Bed	47	19
Hot Blast Stoves	432	214+
Hot Dog		
Cooker	D 7	323+
Packaging	53	DIG. 1
Hot Houses	47	17+
Engine cooling vents	180	68.3
Hot Pad or Mitt	D29	20+
Hot Plate	219	443+
Design	D 7	362+
Hot Topping	164	122+
Hot Tops	249	106
Hot Water Bottle	383	901*
Design	D24	43
Hot Water Furnace	122	
Hot Wire Meters	324	106
Hounds		
Vehicle	280	139
Draft pole combined	278	43
Hour Glass	368	93
House	52	
Amusement	272	2
Animal	119	15+
Annunciators	340	815.1+
Compound maintenance tools	7	105+
Drying in kilns	34	201+
Heating and cooling system	165	48.1
Heating system	237	
House trailer	D12	103
Moving	52	143
Portable track	238	13
Numbers		
Fluorescent	250	462.1
Luminous	40	542
Plate	D20	10+
Plumbing (See plumbing)	4	211+
Toy	446	476+
Construction	446	108+
Furnishings	446	479+
Ventilation	98	
Toilet	4	209R+
Houseboat		
Design	D12	315
Housecoat or Robe	D 2	12+
Household Articles	D 7	
Linen	D 6	595+
Measuring implement	D10	46.2
Housing		
Abrading apparatus	51	268+
Animal confining and	119	15+
Brush and broom	15	184+
Closure seals	292	317
Combination lock	70	443
Fence supported by	70	322
Electricity conductors	174	50
Fluid or vacuum type	174	17R+
Wall mounted	174	48+
For an electrical device	174	50+
For different electrical devices	361	331+
For specific electrical device (See the type of device)		
Key operated locks	70	448+
Lock on rotary shaft	70	184+
Lock on valve	70	179
Material treating drum with gas flow	34	139
Heating	34	133
Metal rolling apparatus	72	237+
Padlock	70	52
Nonshackle type	70	33
Radio receiver	455	347+
Vehicle	455	343+
Rotary shafting	464	170+
Shaft combined	464	52+
Swinging door locks		
Interfitting keeper and	70	102+
Swinging deadbolt type	70	136
Switchboard	361	331+
Television	358	254
Thermometer	374	208+
Transceiver	455	90
Transmitter	455	128
Tuner with	334	85
Hovering Vehicles	180	116+
Howitzers (See Gun)		
Hub		
Automobile light combined	362	78
Bearing		
Ball	384	544
Roller	384	589
Brake		
Operator	188	114
Transmission	192	6R
Vehicle	188	17+
Velocipede	188	26
Cap	301	108R
Lock	70	259+
Groove railway	295	45+
Impeller	416	204R+
Land vehicle	301	105R+
Compression plural spoke series	301	74+
Compression single spoke series	301	80+
Tension	301	59+
Wrench	301	116
Manufacture and assembly	29	894.36+
Boring	408	72R
Special woodworking machines	144	16
Runner vehicle	280	14
Wrench	81	75+
Hub Odometers	235	95B+
Hull		
Airship	244	125
Cleaning implements	114	222
Rotary for propulsion	440	99
Ship	114	56+
Small boat	114	355+
Huller (See Husker)		
Ball	19	35+

	Class	Subclass
Gin saw combined	19	56
Clover	460	15
Grain		
Abrasive or impact	99	600+
Apparatus combined	241	101R
By solid agent	426	483
Other comminution combined	241	7
Nut	99	568+
Skinner or blancher	99	623+
Hulling		
Grain	426	481+
Apparatus	99	600+
Hum Bucking in an Amplifier	330	149
Human Chorionic Gonadotropin, Hcg, Testing	436	818*
Humanities, Computer Applications	364	419
Humidifiers Gas	261	
Air heating furnace combined	126	113
Auto humidifier	261	DIG. 4
Cabinet combined	312	31+
Design	D23	359
Drier combined	34	
Duct	261	DIG. 15
Gas separation combined	55	
Pad retaining means in	261	DIG. 41
Radiator combined	237	78R
Residue prevention in	261	DIG. 46
Slow diffusers	239	34+
Ventilator combined	98	
Humidity		
Meter (See hygrometer)		
Regulation (See air moistener)	236	
Automatic	261	DIG. 34
Drying apparatus combined	34	50
Heat exchange process	165	3
Heat exchanger combined	165	19+
Tobacco treatment	131	303
Humidor	312	31+
Design	D27	186+
Humming (See Vibration, Dampers)		
Humus	71	24
Hunting	43	
Belt with cartridge holder	D 3	100
Boats	114	351
Coats	2	94
Decoys	43	2+
Design, general	D22	
Equipment and game carriers	224	
Knife	D22	118
License holder	40	642+
Badge	40	1.5+
Telescopic gun sight	D16	132
Traps	43	58+
Design	D22	119+
Hurdles	272	101+
Layouts	272	4
Hurdy Gurdy (See Orchestrion)		
Husbandry		
Animal	119	
Design	D30	
Plant	47	
Design	D 8	1
Husker (See Huller)		
Corn	460	26+
Ear separator	99	585
Feeders for	460	18
Grain		
Abrasive or impact	99	600+
By solid agent	426	483
Picker combined	56	103+
Picker cornstalk type combined	56	64+
Power operated	56	14.1+
Process	426	482+
Hybrid Cell Formation	435	172.2
X-art collection	935	89*
Hydantoin	548	308
Hydnocarpic Acid	562	413
Hydrant	D23	234
Charged sprinkler	239	148
Structure	137	272+
Syringe	604	150
Hydrastinine	546	90
Hydrate of Hydrocarbon	585	15
Hydrators Lime	422	162
Hydraulic		
Accumulator	138	26+
Apparatus		
Aircraft control	244	226+
Bar and tube drawing	72	287+
Bulldozer blade control	172	812
Conveyer	406	
Pump	415	
Punching machine	83	639.1
Pushing and pulling implements	254	93R
Snowplow blade control	37	234
Testing	73	168
Bark rossing	144	208D
Brake	188	151R+
Electric fluid alarm	340	450+
Fluid	252	71+
Fluid alarm	116	28R+
Line valve	137	598
Pulsator	60	533+
Cement		
Composition	106	638+
Glass combined	501	32
Manufacture	106	739+
Clutch coupling or transmission	74	730.1+
Accumulator type	138	26+
Planetary gearing combined	475	31+
Vehicle spring combined	267	2+
Dynamometers	73	862+
Tensile strain testing	73	836
Endless flexible track adjusting	305	10
Engineering	405	52
Caissons	405	8+
Diving	405	185+
Drydocks	405	4+
Marine structures in shifting media	405	195+
Marine ways	405	2
Pipe & cable laying	405	154+
Ship caissons	405	12
Tunnel	405	132+
Underground fluid storage	405	53+
Water control	405	52+
Jack	254	93R
Motor and pump	60	325+
Mains		
Flow control	137	
Structure	138	177
Metal injector	164	314+
Motor regulators	137	505+
Speed responsive	415	30+
Torque responsive	415	30+
Motors (See motor)	91	
Pump combined	60	325+
Power plants	60	325+
Press		
Die shaping	72	
Forging	72	453.1+
Motor pump operator	60	325+
Multiple motors	60	698+
Pressure fluid source & motor	60	325+
Sand mold compactor	164	212
Propulsion		
Motor	60	200.1+
Railway car	104	154
Ship	440	5+
Pump	417	
Ram		
Compressor	417	104
Pump	417	226+
Weighing scale	177	208+
Hydrazide (See Amide)		
Hydrazine	423	407+
Explosive or thermic composition containing	149	36
Organic	564	310+
Reducing compositions	252	188.1
Sulfate	423	388
Hydrazoic Acid	423	351
Hydrazones	564	250+
Hydrides	423	644
Reducing compositions	252	188.25+
Hydrindone	568	327
Hydrins	558	303+
Chlor	568	841+
Hydrolysis of	568	859+
Cyan	558	451+
Hydriodic Acid	423	481
Hydrocarbons	585	
Apparatus of recited composition	585	920*
Apparatus structure recited	585	921*
Reactor fluid manipulating device	585	922*
Reactor shape or disposition	585	924*
Azeotropic distillation with	203	68+
Blended or composition	585	1+
Compound	585	16+
Drying oil hydrocarbon	585	945*
Fischer tropsch synthesis	518	700+
Gas separation	55	
Hydrate of	585	15
Inorganic material conversion	585	943*
Low molecular weight polymer compositions	106	901*
Mineral oils	208	
Opening of hydrocarbon ring	585	940*
Polymerized unsaturates only (See also synthetic resin or natural rubber)	526	335+
Purification	585	800+
Radiant resistant composition	585	944*
Carbonium ion production	585	942*
Recovering hydrocarbon		
Solvent extraction	585	833+
Werner complex formation	585	850
Recycling		
Diluent or mass-action agent	585	901*
Hydrogen to control reaction	585	903*
Solvent and catalyst	585	902*
Synthesis		
Alicyclic	585	350+
Aromatic	585	400+
By-product conversion to feed	585	905*
Condition-responsive control in alicyclic synthesis	585	956*
Cooling by evaporation	585	914*
Corrosion prevention	585	950*
Cyclic polymerization	585	415*
Diels-alder reaction	585	361
Isotope exchange	585	941*
Mass-action phenomenon	585	954*
Pulsed, sonic, plasma processes	585	953*
Rehabilitation of hydrogen acceptor	585	900*
Saturated	585	700+
Specified mixing procedure	585	955*
Start-up procedure	585	951*
Stopping or retarding procedure	585	952*
Unsaturated	585	500+
Waxy hydrocarbon polymer production	585	946*
Hydrocellulose	536	56+
Nitrogen containing	536	30+
Hydrocephalus Pumps	604	8
Hydrochloric Acid	423	481+
Hydrocinnamic Acid	562	496
Hydrocortisone	552	577
Hydrocortisone, in Drug	514	179
Hydrocracking		
Mineral oil	208	46+
Paraffin synthesis	585	752
Hydrocyanic Acid	423	364
Electrolytic production of	204	63
Hydrofluoric Acid	423	481
Hydrofluosilic Acid	423	341
Hydrofoils	114	274
Hydrogen	423	648.1+
Alloys for storage	420	900*
Carbureting	48	199R
Apparatus	48	116+
Compositions containing	252	372+
Electrolytic synthesis	204	129
Exchange disproportionation		
Hydrogenation by	585	257
Olefin synthesis by	585	656
Generative composition	252	188.1+
Ion		
Testing electrolytic apparatus	204	433
Testing electrolytic processes	204	1.11
Testing systems	324	438
Peroxide	423	584+
Electrolytic synthesis	204	84
Electrostatic field or electrical discharge synthesis	204	175
Treatment	430	943*
Sulphide		
Synthetic resin or natural rubber vulcanization with	525	343+
Hydrogenation		
Co	518	700+
Coal	208	400+
Electrolytic	204	73R+
Fatty oils	260	409
Hydrocarbons	585	250+
Aromatic	585	266+
Synthesis	585	250+
Mineral oils	208	
Natural resins	530	200+
No2 compound reduction	564	416+
Polymers	525	338+
Rosin	530	223

	Class	Subclass
Hydrolysis		
Alkyl halides to alcohols	568	891+
Alkyl sulfates to alcohols	568	886+
Polyhydric	568	858
Apparatus for carbohydrate	127	1
Carbohydrate	127	36+
Fats oils waxes	260	415+
Fermentative	435	
Halides to phenols	568	796
Hydrometallurgy	75	711+
Hydrometer	73	441+
Chemical analysis, apparatus	422	82.5
Design	D10	84
Design	D10	84
Integral with battery	429	90+
Hydrophenanthrene Carboxylic Acid Esters	560	5+
Hydrophilic Cellular Synthetic Resin or Natural Rubber	521	905*
Hydrophobic Cellular Synthetic Resin or Natural Rubber	521	905*
Hydrophone	367	140+
Hydrophthalic Acid	562	509
Hydroplane Boats	114	271+
Hydroponics	47	59+
Hydroquinone	568	763+
Hydrosols (See Colloids)		
Hydrostatic Extrusion	72	711*
Hydrotherapy Units	D24	38
Hydroxamate Esters	560	312+
Hydroxide (See Hydroxy Compounds)		
Alkali metal electrolytic treatment	204	153
Ammonium electrolytic production	204	102
Bases	423	592
Bindant or reactant	252	193
Electrolytic production of	204	96+
Hydroxylamine Organic	564	300+
O-esters, O-ethers	564	300
Hygiene, Feminine		
Tampons	604	358+
X-art collection	604	904*
Hygrometer	73	335+
Dielectric	324	663+
Electric		
Capacitance change	324	665
Resistance change	324	694
Hygroscope	73	335+
Cooler combined	62	130
Automatic	62	126
Hygroscopic Compositions	252	194
Refrigerated gas drying	62	271
Process	62	94
Refrigeration utilizing	62	476+
Automatic	62	141+
Process	62	101+
Vacuumized chamber	62	269
Hygrostat	73	335+
Humidity control	236	44R
Refrigeration control	62	176.1
Hypnotic Composition	424	
Hypo	423	511+
Hypochlorite	423	473
Biocides containing	424	661+
Bleaching composition	252	187.1+
Detergent compositions	252	95+
Hypodermic		
Ammunition	102	512
Surgical	604	187+
Design	D24	24
Syringe package	206	364+
Hypohalite Esters	560	300
Hypolon T M (See Synthetic Resin or Natural Rubber)		
Hyponitrite Esters	560	316
Hypophosphites Inorganic	423	
Hyposulphites	423	511
I-beam	52	729
Cutter	83	DIG. 2
Ice	62	
Bag	383	901*
Carrier	294	
Design	D24	43
Boats	114	43
Boring	175	18
Boxes	62	459+
Air controller combined	62	420+
Portable, commodity containing	62	371+
Portable receptacle	62	457.7
Breakers	114	40+
Bucket	D 7	603
Control on waterways	405	61
Crushers	241	
Hand tool	D 7	682
Household appliance	D 7	374
Crushing apparatus	241	
Cutting (See notes to)	30	164.5
Electrically heated cutter	30	140
Hand held	30	140
Heated cutter	62	320+
Ice cream freezer with	62	321
Machine	83	171
Machines cutting, X-art	83	915.3*
Sawing	83	915.3
Food	426	101+
Gas solidifiers	62	8+
Grooving	83	875+
Harvesting	299	24+
Houses and cellars	62	459+
Air controlling combined	62	420
Structural installation	62	259.1+
Machine for producing	62	340+
Automatic	62	135+
Making (See congelation)	D15	80
Picks and shavers		
Chipper or pick	30	164.5
General	241	
Harvesting cutters and picks	299	24+
Holder for	224	232+
Ice pick or chipper	30	164.5+
Knives and scrapers with material holder or disposal	30	136+
Prevention on aircraft	244	134R
Prevention on cooling tower	261	DIG. 86
Preventive coating	106	13
Processes of making	62	66+
Protecting marine structure from	405	211
Removal from streets	37	197
Thawing		
Compositions for	252	70
From streets	37	227+
Pipes	138	32+
River and harbor	405	61
Tray design	D15	90
Ice Cream	426	101
Agitator for freezer	366	144+
Cabinets for	220	DIG. 8
Cans for refrigeration	62	433
Cone	426	139
Carriers for cones	229	DIG. 7
Design	D 1	116+
Cup	D 1	116
Cutting	83	
Design	D 1	
Disher, cone shaping	425	118
Freezer	62	340+
Automatic	62	135+
Tray	366	144
With ice breaker	62	321
Machine design	D15	82
Molding	426	515+
Package vending cabinets	221	
Process of freezing	62	66+
Product and making	426	565+
Scoop	425	221
Scoop	425	276+
Scoop or plunger	425	187
Serving tool	D 7	681
Stick, on a	D 1	
Ice Skates	280	11.12+
Attachments for	280	809+
Design	D21	225
Scabbards	280	825
Ichthyol	562	33
Icing	426	659
Edible coating applying machines	118	13+
Processes for applying	99	
Iconometer	33	227+
Camera viewfinder	354	219+
Range & remote distance finding optics	356	3
Iconoscope	313	367+
Television system using	358	217+
Identification		
Agents, chemical or biological analysis	436	
Arm band	40	1.5
Badges	40	1.5+
Design	D20	22+
Card	428	13
Envelope for	206	
With printing	283	74+
Checks labels and tags	283	81
Dyeing	8	
Electrical conductors	174	112
Fingerprint, comparisons	356	71
Fraud preventing coating	427	7
Key locks	70	460
Key	40	330
Of medicine or poison	424	2+
Plug tobacco	131	368
Printed matter	283	74+
Signals and indicators	116	
Tag	283	74+
Writing on photographic film	354	105+
During X-ray exposure	378	165
Idlers (See Machine on which used)		
Bearing	384	262
Belt	474	166+
Metal rolling		
Mill	72	199+
Roll	72	199
Pulleys	474	166+
Belt tightener	474	101+
Igepon T M	260	400+
Igniter and Ignition (See Lighter)		
Alarms operated by	116	104+
Electrical	340	385
Ammunition and explosive devices		
Cartridges	102	470+
Compositions for	149	108.6
Land mines	102	424+
Marine mines	102	416+
Shells	102	200+
Burner	431	
Automatic control of	431	18
Electrical	431	254+
Electrical	431	258+
Mechanical	431	129+
Mechanical	431	254+
Catalytic	431	268
Pocket type	431	147
Chemical	431	267+
Cigarette, pocket type	431	129+
Cigarette, pocket type	431	144+
By electrical means	361	235+
Design	D27	141+
Electrical resistance	219	260+
Tobacco appliance with	131	234
Tobacco with	131	351
Combustion engine combined with rotary piston	123	210+
Electric (See engine)		
Blasting cartridge	102	
Cartridges	102	202.2+
Explosive land mines	102	424+
Flash lights solid fuel	431	357+
Flash lights solid fuel	431	357+
Fluid fuel burners	431	254+
Fluid fuel burners	431	256+
Interference suppressor resistor	338	66+
Resistance type	219	260+
Shells	102	206+
Spark type	361	253+
Time controlled	431	73
Electric space discharge devices		
Consumable electrode type	314	
Energizing systems	315	
Engine	123	594+
Dynamo combined	290	
Spark timing control	123	406+
Starting	123	186+
Fire kindling	431	267+
Flashlight combined	431	357+
Electric primer ignites	431	362
Fluid-flint lighter	431	144+
Frictional	431	267+
Fuse	493	948*
Igniting devices & fuel	44	
Lamp system combined with spark	315	178+
Make and break for internal combustion engines	123	153
Matches	44	507+
Boxes and packages	206	96+
Design	D 9	414+
Matchbook design	D 9	304
Compositions	149	
Scratchers	44	643
Motor vehicle, internal combustion engine equipped	123	143R+
Safety belt responsive to ignition circuit	180	270
Percussive	431	267+
Receptacle combined		

	Class	Subclass
Cigarette or cigar dispenser	221	136+
Match boxes and packages	206	96+
Pocket cigarette or cigar containers	206	85+
Reigniting hot spot	431	347
Speader for ignition wire manifold	D 8	357
Timing	431	86+
Tobacco or tobacco users appliances combined		
Ash trays	131	234
Ash trays design	D27	143+
Cigar end cutter	131	249
Cigars or cigarettes	131	185
Pipes or cigarette holders	131	185
Ignitron (See Electric Space Discharge Device)		
Illuminated		
Changeable exhibitor	40	452
Combined unit	362	253
Clock	368	82
Compact	132	288
Design	D28	64.1
Electric	362	135
Dispenser	222	113
Fare box	232	13
Fountain	239	18+
House number	40	584+
Self-luminous	250	462.1
Knobs	362	100
Liquid level gauge	73	293
Picture frame	40	152.2
Radio dial	116	241+
Refrigerators	62	264
Semaphore arm	246	483
Sign	40	541+
Combined sources of illumination	362	253
Fiber optic, ie light pipe	40	547
Trap	43	113
Vehicle direction indicator		
Pivoted	116	54
Rotatable casing	116	49
Rotatable pointer	116	48
Weighing scale	177	177+
Illuminating		
Gas (See gas, heating & illuminating)	48	
Liquefying apparatus	62	36+
Liquefying process	62	11+
Purifying	423	210
Illumination	362	
Ammunition and explosive devices with tracer	102	513
Bedroom lighting	362	801*
Buoys	441	13+
Cabinets with	312	223
Dental or surgical spotlight	362	804*
Diagnostic type reflector	128	22
Direction indicator	33	348
Dispenser	222	113
Drying apparatus	34	88
Egg candling	356	52+
Electric lamp supply systems	315	
Electrophotographic copier	355	228+
Endoscopes	128	6+
Fans with	416	5
Fountains	362	101
Gags surgical	128	13
Gas generation	48	
Horticultural	362	805*
Light emitting diode	362	800*
Liquid level or depth gage	73	293
Optical testing	356	
Ornamental or decorative lighting	362	806*
Candle imitation	362	810*
Figure	362	808*
Globe	362	809*
Psychedelic	362	811*
Star	362	807*
Parachute flares	102	337+
Pharyngoscopes	128	11
Photo safe lamp	362	803*
Pivoted type specula	128	18
Pyrotechnics rockets	102	347+
Radio dial	116	241+
Shells with	102	513
Signs	362	812*
Stoves heating and illuminating	126	97
Stoves illuminating lid or top	126	213
Switch position or condition responsive	362	802*
Testing illuminating fluids	73	36
Tongue depressors	128	16
Torches	102	336+
Toys with electric	446	485+
Vehicle simulation	446	438+
Illuminators (See Illumination)		
Illusion		
Amusement	272	8R+
Railway amusement vehicle	104	83
Optical	104	84
Physical	104	85
Image Analysis	382	
Image Dissector Television	358	209
Cathode ray tube system	358	217+
Scanning	358	199+
Tube structure	313	373+
Image, Latent	428	29+
Electrophotographic copier	355	210+
Formed or developed	427	145
Hidden answer	434	328
Hidden answer	434	348
Illuminated signs	40	541+
Imbibition Printing	101	464
Imbrication		
Electrophotographic copier	355	322
Imidazobenzodiazepine	540	562
Imidazobenzodiazepinone	540	498
Imidazoles	548	335+
Fused polycarboxylic imide	546	
Imidazolidines	548	300+
Imidazolidones	548	300+
Imidazolines	548	300+
Imides (See Amides)		
Indole nucleus ctg	548	473+
Naphthostyrils	548	437
Polycarboxylic	546	
Imidic Acid Esters	558	6+
Hydroximidic acid esters	558	7
Pseudo ureas	558	8
Imidic Acid Halides	562	802+
Isocyanide dihalides	562	803
Imitations (See Artificial)		
Candle fixture or support	362	392
Cane umbrella case	135	18
Firearm, flashes light	362	112
Marble in plastic	264	73+
Plural modules on wall		
Static mold for making	249	16
Stage	272	8R+
Props	272	21+
Static mold shaped to simulate product of nature	249	55
Stitch on shoe	12	32
Water pistol type dispensers	222	78+
Immersing and Immersion		
Abrading	51	7
Scouring	51	17+
Boiler or deep fat fryer type	99	403+
Clothes washing	68	
Coating	118	400+
Method	427	430.1+
Dish and solids washing	134	43+
Electric heater	392	497+
Electric heater	219	523
Filling portable receptacles	141	110+
Sterilizing	422	301+
Tumbler cleaning with brushing	15	76
Water heater	126	348
Welding apparatus	427	430.1+
Immunizing		
Antigens and sera	424	88+
Cellulose fibers	8	120+
Ferments	435	245
Immunoassay	436	818*
Immunoglobulins	530	387
Immunological Testing	436	500+
Impact		
Absorbtion by flexible barrier		
By flexible barrier	49	9
By plastic deformation	188	371+
By resilient deformation	188	268
Comminutor		
By fluid stream	241	39+
By materials impact	241	5
By moving surfaces	241	27
Hammer mills	241	185R+
Drive device for tool	173	90
Measuring	73	492
Metal extruding by	72	267
Mining machine	299	69
Operated or operation		
Assembling or disassembling	29	275
Bump release of closure	49	364
Clutch	173	93.5+
Cutter	30	277
Mail catcher load release	258	25
Mail catcher load release combined	258	11+
Solid material separation	209	
Valve	251	76
Plates	198	956*
Recorders	346	7
Scale removal by	29	81.15
Support movable or disengageable on impact or overload	248	900*
Testing by	73	12+
Hardness	73	82
Shear strength by	73	844
Tools		
Assembling or diassembling	29	275+
Awl or prick punch	30	367
Cutter blade mechanism	30	277
Drilling bits	175	414+
Electric motor	310	15+
Electric motor systems	318	114
Holders	81	487
Internal impact element	81	463+
Jack hammer type	175	189
Mining or disintegrating in situ	299	94
Punch	30	367
Pusher or puller eg explosive operated	29	254+
Stonemasons	125	40+
Tunneling	299	94
Welding apparatus	228	24
Wrenches	81	463
Impaling (See Point; Prong)		
Closure remover combined	81	3.47
Impaling only eg cork screw	81	3.48+
Cooker electrode	99	358
Cooker spit	99	419+
Dispenser	221	213+
Endless conveyor	198	692+
Rake endless chain	56	400.3
Support spiked	211	125
Support stacked article	211	54.1+
Traps	43	77+
Impedance (See Condenser; Inductance; Resistance)		
Alternating current regulators	323	
Anti inductive telephone system	379	416+
Arc lamp frame with	314	132
Branched	333	124+
Coupler	333	24R+
High frequency type	333	
In amplifier coupling (See amplifier)		
Inductances	336	
Loaded signaling circuit	178	45+
Long signaling lines	333	236+
Matching	333	32+
Testing of	324	691+
Mechanical vibration	73	574+
Transformers	336	
Variable inductance	336	
Variable transformer	336	
With antenna	343	860+
Plural path	343	852
Impellers (See Propellers)	416	
Compressor		
Expansible chamber	418	
Jet pump combined	417	76+
Screw	415	71+
Fluid reaction surfaces	416	
Gas and liquid contact apparatus	261	84+
Making		
Machines	29	23.51
Process	29	889+
Pump		
Centrifugal	416	179+
Expansible chamber	418	
Screw	415	71+
Textile impulsing	68	134
Implant		
Controlled release of medicines	604	891.1
Dental	433	173
Reservoirs	604	93
Securing conduit to body	604	175
Synthetic resin compositions for	523	105+
Synthetic resin used for	525	937*
Implements (See Instrument; Tool)		
Coating or cleaning	15	104R+
Material supply combined	401	
Cutter	30	

	Class	Subclass
Earthworking	172	
Bulldozer	172	811+
Embroidering	112	80.3+
Flatiron	38	74+
Handling	294	
Igniting	431	267+
Making	76	
Pushing	254	
Sampling	73	864+
Snow excavating	37	196+
Splicing	57	23
Impregnated		
Coating implement	15	104.93+
Product of nature	428	15+
Stone	428	540
Textile	428	224+
Wood	428	541
Impregnating		
Abrasive tools	51	295
Apparatus	118	
Beer with carbonic acid	261	
Cigars and cigarettes	131	362
Compositions	106	
Conductors insulated	174	120R+
Fluid for vacuum containing	174	25R+
Covering apparatus combined	57	7
Covering process combined	57	7
Match splints	149	3+
Packing with rubber	277	227+
Plants living	47	57.5
Processes	427	
Spinning or twisting apparatus combined	57	295
Paper or cellulose tape	57	32
Textile process combined	28	167+
Covered strands	57	217
Twisted strands	57	250
Tobacco	131	300+
Twisting process combined	57	295+
Warp preparation combined	28	178+
Impressed		
Book	282	23R
Leaf	282	27R
Impressing		
Dental device	433	68+
Mold	433	34+
Leather	69	2
Tobacco labeling	131	113
Improver		
Bread or flour	426	653
Impulse (See Electric Impulse Generator)		
Incandescent (See Electrode; Illumination; Light)		
Gaseous fuel burners	431	100+
Grates for gas burners	126	92R
Igniters for engines	123	145R+
Incandescent lamp	D26	2+
Lamps	313	315+
Design	D26	
Heaters	219	552+
Making, glass working		
Apparatus	65	152+
Methods	65	36+
With arc	313	8
Mantle	431	100+
Mantle packages	206	68
Incendiary		
Ammunition and explosive devices	102	364+
Compositions for	149	
Incense	424	40
Incense Burners		
Design	D11	131.1
Design, simulative forms	D11	131.1
Incinerators	D34	1.1
Cooking stove	126	222+
Dry matter	110	235+
Garbage	122	2
Wet matter	110	238
Incline (See Hoists)		
Elevator	187	12
Handling type	414	595+
Portable	187	10
Gravity way	193	
Inclinometer	33	365+
Incubators	119	35+
Automatic control	236	2+
Baby	600	22
Controlled heating systems	237	3+
Culture plates or container	435	809*
Design	D24	9
Heating systems	237	14+
Switches	200	61
Indamines	552	301
Indene	585	27
Azo compound ctg.	534	659
Indeneones	568	327
Indanthrene	544	339+
Indene Polymers	526	280+
Coumarone indene resins	526	266
Indenting or Indented		
Code recorders	178	92
Laminated fabric process	156	196+
Nails	411	439+
Rod joint	403	274+
Shoe sole sewing machine	112	29
Stippling press	72	76
Stock material	428	156+
Wire substitute for nail	411	439+
Index Card	40	380
Indexes		
Book cutting	83	904*
Calendar	283	3
Map	283	35
Printed matter	283	36+
Protrusion to receive identification	40	360
Tabs	D19	99
Telephone selector list finder	40	371+
Indexing (See Turret)		
Brush making		
Work holder	300	11
Chuck	279	5
Drilling work support	408	71
Graduation scriber	33	19.1+
Milling work holder	409	221+
India Ink	106	20+
Indication Train Position	246	122R+
Indicators (See Measuring; Signal; Testing)		
Angler	43	17
Annunciators	340	815.1+
Arm or pointer structure	116	327+
Article dispensing	221	2+
Automobile turn or stop		
Electrical	340	458
Mechanical	116	35R+
Switches	200	61.27+
Boards for house signaling systems	340	815.23
Boiler safety	122	504.2
Bottle or jar content	215	365+
Poison	215	367
Brake actuation	116	200+
Electrical	340	453+
Electrical deceleration	340	669
Brake condition	188	1.11
Building indicia	52	105
Cabinet with	312	234
Channel depth	116	113
Depth sounding	33	713+
Chemical	252	408.1
Heat exchange composition combined	252	68
Chuck jaws combined	279	111
Closure condition	49	13+
Coating implement combined	401	194
Coffee makers	99	285
Content alteration	215	365+
Conveyor combined	198	502.1+
Means to facilitate inspection	198	339.1
Cooking apparatus	99	342+
Counting	235	
Damper position	126	295
Direction	33	300+
Drying apparatus combined	34	89
Earth boring combined	175	40+
Electrical		
Annunciators	340	815.1+
Cable combined	174	11R
Current direction	324	133
Fuse	337	241+
Ground	340	649
Line-signal indicator testing	379	20
Phase	324	838+
Polarity	324	133
Switch operating	200	56R
Switch position	200	308+
Telephone call	379	27+
Vehicle systems	340	425.5+
Expansible chamber motor combined	91	1
Fire escape combined	182	18
Fisherman	43	17
Fluid handling system or devices with	137	551+
Fluorescent and phosphorescent	250	483.1
Foul line bowling	273	50
Fountain pen combined	401	194
Funnel combined	141	95
Fuse	337	265
Headlight combined	362	61+
Heat exchanger combined	165	11.1
Illumination combined source	362	253
Leakage	137	312+
Liquid heater	126	388
Lock		
Combination	70	330+
Condition	70	432+
Machine tool		
Cutting machine	83	522.11+
Selective punching	234	131
Mail box combined	232	37
Measuring combined	73	
Special relations	33	
Mechanical	116	
Metal casting combined	164	150+
Metal deforming apparatus combined	72	31+
Micrometer	33	818+
Mountings	248	904*
Music		
Instruments automatic	84	169
Teaching	84	477R+
Nautical	116	26+
Buoy	441	1+
Life preserver combined	441	89
Nuclear fuel rupture warning	376	251
Nuclear fuel rupture warning	376	450
Water level in boat	116	227+
Nuclear reactor condition	376	245
Photographic film holders	354	276+
Pipes	138	104
Wear	138	36
Pneumatic dispatch	406	34+
Poison	215	367
Refrigeration	62	125+
Resonance	334	30+
Safes	109	38+
Fluid releasing combined	109	31
Separator, imperforate bowl centrifugal	494	10
Speaking tube combined	181	19
Steam engine	346	3+
Steering towed ship	114	246
Strand tension	242	148
Tags stock talley	283	79
Taillight combined	362	61+
Target combined electrical	273	371+
Target combined mechanical	273	378+
Telemetric	340	870.4+
Tester with	73	
Thermostat combined	236	94
Time	368	223+
Train carried station indicator	246	174+
Train defect	246	169R
Hot box	116	214
Tuner	334	86+
Tuning radio	455	154
Type justifying	276	11
Typewriter	400	703+
Line spacing combined	400	548+
Valve	137	551+
Winding		
Spring motor	185	44
Spring motor plural	185	14
Watch	368	210
Weight motor	185	36
Wreck buoys	441	6+
Indicia (See Indicators)		
Mileage transportation	283	24
Indigo	548	457+
Indigoid		
Azo compounds	534	789
Dye compositions containing	8	653
Indium, Metal Working with	29	DIG. 22
Pyrometallurgy	75	688
Indoanilines	552	302
Indolines	548	490
Indophenols	552	302
Carbazole	548	442
Inductance	336	
Capacitor with	361	270+
Lamp or electronic tube system having	315	289+
Resistor with reduced	338	61+
Resonator having only	333	219+

	Class	Subclass
Systems	323	355
Transformer having modifying means for	336	69
Transmission		
Line components with	333	245*
Line with	333	236*
Tuner having lumped impedance	334	71*
Variable	336	
Induction (See Anti-induction)		
Cab signal	246	194
Signal block	246	63R
Coil		
Check operated	194	239*
Communication circuit loading	178	45*
Electric apparatus	336	
Telephone	379	172*
Current transmission to vehicles	191	10
Disturbances in electric conductors and cables reducing	174	32*
Telegraph	178	69R
Drive for electric railways	104	288*
Electrostatic generator	310	309*
Electrothermic processes, metallurgy	75	10.1*
For electrotherapy	128	783*
Furnace	373	138*
Furnace with arc	373	4
Furnace with resistance	373	6
Generators	310	168*
Heaters	219	10.75
Laminating apparatus	156	379.6*
Laminating methods using	156	272.2*
Heating		
Apparatus	219	6.5*
Cooking	219	10.495
Metal casting device combined	164	250.1
Continuous casting apparatus	164	507
Methods	219	10.41*
Igniting device	361	247*
Inductor device	336	
Motor	310	166*
System	318	727*
Reactor variable	336	
Regulator	336	
Telegraph system	178	43
Telephone system	379	55
Train dispatching	246	8
Transformer structure	336	
Transformer system for metal heating	219	116
Induction Motor	310	166*
Inductor (See Inductance)		
Induline	544	348
Indurating		
Catalysts	502	100*
Compositions	106	12
Metal casting using	164	66.1*
Continuous casting	164	475
Inert Gases		
Separating	55	66
Inertia Controlled		
Aircraft control gravity	244	80
Aircraft control gyroscopic	244	79
Brake	188	266
Brake	188	275
Centrifugal electric switch	200	80R
Closure checks	16	83
Compasses gyroscopic	33	324*
Derailment trip	246	173
Dispenser outlet element	222	500
Drop bomb control	102	382*
Fly wheels	74	572*
Fuses	102	247*
Hydraulic brake	303	24.1
Monorail cars	105	141
Operated switches	200	61.45 R
Pendulum operated exhibitor	40	485
Planetary gearing	475	267*
Speed responsive devices	73	514*
Torpedo steering	114	24
Toy vehicle drive	446	462*
Valve actuators	137	38*
Vibrating exhibitor	40	613*
Vibration damping	188	378*
Vibration sensing	73	652*
Infant Crawling, Teaching	434	255
Inflammability Testers	73	36
Inflation, Inflated & Inflatable		
Abrading tool	51	372*
Airship	244	98
Article filling	137	223*
Catheters	604	96*
Clothes form	223	67
Compositions, rapid	149	
Compositions, slow	252	188.1*
Dilator	606	191*
Element		
Static mold having	249	65
Freight bracing bag	410	119
Panel attached and urging	410	129
Squeeze including	410	125
Joint packing	277	
Life preservers	441	90*
Life rafts	441	40*
Mattresses	5	449*
Parachute stiffener or opener	244	146
Pessaries	128	836
Pipe seal	138	93
Ship raising device	114	54
Shoe forms	12	114.4
Syringe nozzle	604	275
Tire filling devices	222	3*
Portable receptacle type	141	38
Vehicle attached	417	231*
With nongaseous material	141	38
Tire per se	152	
Tire signal	116	34R
Toys	446	220*
Design	D21	59*
Truss	128	118.1
Valves	137	223*
Information Search & Retrieval		
Dynamic systems	369	
Magnetic	360	
Registers system	377	
Static systems	365	
Testing of system by digital signal	371	21.1*
Infrared (See Heat)		
Detection of	250	338.1
Drying process with	34	39*
Generator	392	407
Generator	219	553
Generator ultraviolet and	250	495.1
Heater	392	407
Heater	219	553
Lamp	313	110
Photography	430	348*
Radiation imaging	430	944*
Sensitive composition	430	616
Telescope	250	338.1
Testing with	250	338.1
Treatment of fluids	250	432R
Infusing (See Extracting and Extracts)		
Apparatus and appliances		
Beverage	99	279*
Beverage, reusable	99	323
Closet or sink combined	4	222*
Medicators	604	131*
Infuser, teabag	D 1	199
Slow diffuser	239	34*
Special receptacle and package	206	.5
Ingot		
Casting	164	
Feeding & orienting	198	373
Handling	193	
Molds	249	174
Composite	249	84
Powder metallurgy	419	
Stripper	164	405*
Structure	428	585*
Design	D15	144
Turning devices for rolling mills	72	227*
Inhalers		
Artificial respirator	128	28*
Inhalants	424	
Medicated	128	203.12*
Inhibitors	252	380*
Initiating Devices	272	27R
Injection		
Condensers	261	76
Food pickling needle	99	532*
Molding	425	542*
Needleless hypodermic	604	68*
Plant injection	47	57.5
Pumps	417	151*
Surgical instruments	604	187*
Injectors		
Bathtub combined	4	542*
Boiler circulation	122	407
Boiler cleaners	122	404
Car ventilator	98	9
Embalmer	27	24.1
Food pickling needle	254	2R*
Fuel		
Combustion products generator	60	740*
Rotary piston engine combined	123	205*
Furnace draft regulator	110	150
Gas and liquid contact devices	261	76*
Hardenable material into earth formation	405	269
Hypodermic	604	187*
Lubricators	184	39.1
Medicator gas	604	23*
Mineral oil distillation		
Vaporizers	196	127
Vaporizing circulation	196	126
Molding		
Metal apparatus	164	303*
Metal method	164	113*
Nozzle	239	
Plant husbandry	47	57.5
Pneumatic conveyors	406	194
Pumps	417	151*
Resilient tire cement	81	15.5
Textile fluid treating apparatus	68	201
Track bed tampers	104	11
Ink (See Printing)		
Bottle	D 9	
Cartridge rupturable	401	132*
Compositions	106	20*
Electroless coating	106	1.5*
Eradicator	252	89.1*
Guards penholder combined	15	443
Making inkwell	15	257.7
Repellent		
Antismut devices	101	422
Compositions	106	2
Stands (See inkwell)	248	127*
Calendar combined	40	358
Design	D19	93*
Dispenser type	222	577
Pen engaged closure	15	257.75
Pen rack combined	211	69.2*
Testing of	73	150R
Ink Jet Making	29	890.1
Ink Jet Printing	346	75
Carbon compound digest on ink	260	DIG. 38
Markers or driving means thereof	346	140R
Inkers		
Bed and platen printing machine	101	287*
Selective or progressive	101	93*
Boot and shoe sole edge	118	200*
Intaglio printing	101	150*
Multicolor printing	101	171*
Numbering machine bed and platen type	101	78*
Pads and forms	118	264*
Perforator combined e. g., tattooer	81	9.22
Planographic printing	101	134
Printing	101	335*
Printing members combined	101	327*
Selective or progressive	101	103*
Recorder stylus	346	140R
Rolling contact printing	101	212*
Stencil	101	114*
Stencil type addressing machine	101	48*
Straight line scriber	33	34*
Dotted line	33	39.1*
Hand pen	33	39.2
Telegraph code recorder	178	96
Typewriter	400	191*
Bar	400	470*
Ribbon	400	197*
Inkwell	15	257.7*
Cabinet with	312	232
Desk attached	108	26.2
Dispenser type	222	576*
Inkstand	222	577
Inkstand	248	127*
Movable inkwell	248	128*
Stationary inkwell	248	146*
Pen rack combined	211	69.2*
Inlaid		
Linoleum	428	57*
Laminating	156	
Molding	425	
Ornamentation	428	77*
Parquet floors (See parquetry)	52	315
Treads tires having	152	188
Inner Tubes (See Tire Pneumatic)		
Tire making	156	118*
Innersoles, for Shoes	D 2	318
Inoculation		
Antigens and sera	424	88*

	Class	Subclass
Fermentative	435	30
Inorganic Compounds	23	
Conversion to hydrocarbon	585	943*
Wave energy preparation	204	157.4+
Inorganic Settable Material Compositions	106	638+
Building guard	52	101
Catching nets	43	143
Destroying	43	132.1+
Electrocuting	43	112
Exits in closures and screens	160	12+
Fumigators	43	125+
Netting for beds	5	414+
Preserving, teaching taxidermy	434	296+
Traps	43	107+
Design	D22	122+
Insect Insecticides	424	
Coated or impregnated vehicle	424	411+
Coating or plastic compositions containing	106	15.5+
Container	206	524.1
Detergents containing	252	106+
Fertilizer containing	71	3+
Garment hangers combined	223	86
Insecticide sprayer	D23	213+
Apparatus	239	
X-art collection	43	900*
Method	43	132.1
Water softening or purifying compositions containing	252	175
Insemination, Artificial	604	906
Inserters (See Nailing; Stapling)		
Assembling apparatus	29	700+
Belt hook	29	243.51
Box lining	493	93+
Sausage stuffers	17	35+
Saw tooth	76	80
Surgical implement	606	117+
Needle	606	222
Tape inserting apparel	223	50
Tire patch inserters	81	15.5+
Wick	431	120
Inserts		
Bearing surface	384	282+
Bedstead	5	280
Brake shoes cast	188	256
Composite metal casting	164	91+
Cooking molds	249	112+
Earth boring bit insert	175	410
Garment	2	400
Gearing	74	451
Holding		
Core	164	231
Mold	164	332+
Pattern	164	236
Nonmetallic composite casting	249	83+
Insignia		
Apparel	2	246
Badges	40	1.5+
Design	D11	95+
Emblem per se	D11	99
Insoles		
Making method	12	146B
Reinforcing machine	12	20
Shoe (See soles)	36	43+
Laminated	36	44
Prepared for securing	36	22R
Ventilated	36	3R
With body treating means	128	383
With local padding	36	71
With shank stiffener	36	76R
Therapeutic	128	383
Inspection & Inspecting (See Specific Subject; Testing)		
Cloth	26	70
Dispenser with means for	222	154+
Drying apparatus with means for	34	88
Gauges	33	501+
Lamp for	362	138
Measuring and testing	73	
Metal founding device with means for	164	150+
Robot	901	44*
Instrument (See Type of Instrument)		
Board	73	866.3
Illumination, automobile	362	61+
Switch boards	361	331+
Telephone switchboard	379	319+
Calibrating	73	1R+
Electrical instruments	324	74+
Casings	73	431
Dental	433	25+
Electric switch combined with	200	56R
Fluorescent or phosphorescent indicating	250	483.1
Flying of aircraft	342	407+
Apparel	33	2R+
Area integrators	33	121+
Direction or force indicator	33	300+
Distance	33	700+
Landing	342	410+
Scribers	33	18.1+
Straight edge type	33	431+
Navigational	33	457
Straight line light ray type	33	227+
Household measuring	D10	46.2
Materials	33	DIG. 11
Measuring	D10	
Mechanical expedients	33	DIG. 12
Mechanism damping	73	430
Medical	D24	8+
Musical	84	1+
Design	D17	
Electrical	84	600+
Stringed	84	173+
Wind	84	330+
Panel in vehicle	D12	192
Panel mounted	248	27.1+
Signalling	D10	
Sterilizing, disinfecting apparatus	422	
Support heads for	248	177+
Testing	D10	
Transformers	336	
Insufflaters	604	58
Insulation and Insulating		
Building wall	52	404+
By lamina	52	408+
Yieldable	52	393+
Electric	174	
Battery separator	429	247+
Bridged rail joint	246	48
Bushings	174	152R+
Ceramic composition	501	1+
Conductor cover burnishing	29	90.5
Fluent composition	252	570+
Handle	16	116R+
Indefinite length conductor covering	156	47+
Lamp sockets	439	
Magnet or coil tape	242	7.8
Making metal parts for	29	631
Meters and testers	324	555+
Pipe joints or couplings	285	47+
Rail joints	238	152+
Railway rolling stock parts	105	60
Railway tie tie plate and rail	238	107+
Ring winding tape	242	6
Shaft coupling	464	900*
Trolley conductor section	191	39
Trolley conductor support	191	42
X-art	493	949*
Heat		
Alkali metal silicate containing composition	106	601+
Boiler outlet flue	122	164
Bottle or jar	215	12.1+
Building	52	408+
Cabinets	312	214
Ceramic porous composition	501	80+
Compositions	252	62
Container	206	542
X-art	493	903*
Covering laminated type making	156	
Double-wall receptacle, wooden	217	128+
Flatiron body	38	89
Flatiron stand or base	248	117.3+
Fluid sprinkler, sprayer, diffuser	239	397.5
Gas separator	55	267
Handle	16	116R+
Inorganic ingredient containing composition	106	672
Metal receptacle spaced wall	220	445+
Muffler or sound filter	181	282
Oven	126	273.5
Pore forming composition	106	122
Stock material	428	920*
Tobacco smoking devices	131	194+
Water heater	126	375
Sound (See muffler)		
Aircraft body structure	244	119
Alkali metal silicate containing composition	106	601+
Auditorium	181	30
Ceramic porous composition	501	80+
Compositions	252	62
Gas separator	55	276
Gearing	74	443
Inorganic ingredient containing composition	106	672+
Lock silencer or muffler	70	463
Motion picture camera	352	35
Muffler or sound filter	181	207+
Piano resonance device	84	191
Pore forming composition	106	122
Structure	181	
Tape	428	343+
Coating	427	207.1+
Coating opposite sides	427	208
Packaged roll	206	411
Insulation Strippers		
Tube or sheath splitter	30	90.1+
Wire	81	9.4+
Insulin, T.m	530	303
Medicine containing	514	3
Insurance Documents	283	54
Intaglio		
Electrolytic reproduction	204	4+
Ornamentation	428	156+
Photographic production of	430	307+
Printing	101	150+
Combined with another type	101	DIG. 43
Static mold for forming product having	249	104
Intake		
Channel	405	127
Filter for pipe	210	460+
Fluid current conveyor	406	108+
Adjustable	406	113+
Plural	406	117+
Pneumatic straw stacker	406	139+
Gravity positioned sprayer	239	334
Pump rotary center	415	206
Integrated Circuit (See Transistor)		
Integrated Optical Circuit	350	96.11+
Integrators		
Area	33	121+
Calculators	235	61C
Distance	73	490
Ships log combined	73	183
Velocity	73	503
Volume or rate of flow meters		
Area velocity	73	227
Pressure differential type	73	861.43+
Weigher combined	177	16
Intensifiers (See Amplifiers)		
Diaphragms acoustic	181	157+
Photographic	430	487
Telephone	379	156+
Intercalates (See Definition Note (3))	428	402.2
Intercommunication System		
Electric	379	167+
Multiplex	370	
Paging	340	311.1
Selective	340	825.44+
Intercom	D14	159
Telephone-type	D14	142+
Intercomparison		
Article or material	434	367
Printed matter	281	51
Interconnection Systems	307	
Interelectrode Capacitance Testing		
Electronic Tube	324	409+
Interference Film Antireflection	350	162.19
Interference Suppression (See Transmission, Electric)		
Interferometer	356	345+
Digest	33	DIG. 4
Holography	356	347
Interferon	435	811*
Spectroscopy	356	346
With light conductor	250	227.27
Interferon	530	351
Interleaving		
Electrophotographic copier	355	325
Interleukin	530	351
Interliners Tires	152	203+
Interlock and Interlocking		
Clutches and power stop control	192	
Electric switches	200	50R
Machine tool functions		
Cutting machine	83	399+
Selective cutting	234	52
Multiple controlling elements	74	483R+

	Class	Subclass
Nuclear fuel segments	376	429
Railway switches and signals	246	131+
Refrigeration related	62	267
Seams joints and connections		
Block, angle surfaces	52	589+
Block, single surface	52	593+
Building facings or shingles	52	519+
Chain loop	59	3
Flat rod joints	403	
Flexible rod joints	403	206+
Metal container	220	689+
Pavement block	404	47+
Pipe joints	285	330
Road module	404	50+
Sheet metal container making	413	
Tile wall facing	52	589+
Wire fabric interlocking loop	245	5
Intermediate Frequency Amplifier	330	
Transformers for	336	
Tuned with capacitor	334	78+
Tuned with slug	336	130+
Intermittent		
Applied wheel brake	188	85
Clutches	192	
Coloring of thread	8	149
Combustion bursts or flare-ups	431	1
Drive combined with planetary gearing	475	14+
Electric signal clock controlled	368	98
Engine valve	91	
Feed and or discharge		
Disinfecting	422	123+
Dispenser type	222	
Electrode	314	
Fiber picking beaters	19	92
Harvester conveyor belt	56	346+
Planter	111	37+
Rotary web or strand feeder	226	152+
Sprayer discharge	239	99+
Sprayer supply	239	331+
Strip film	352	166+
Web or strand	226	120+
Wire	72	419+
Gear	74	435
Grip (See clutch; pawl; ratchet)		
Electrode feeder	314	
Engaging land vehicle drive	280	241
Engaging locomotive drive	105	32
Machine element	74	111+
Railway signal mechanism	246	154
Strip film feed	352	191
Harvester conveyor belt	56	183
Impulse speed responsive	73	506
Land vehicle propeller	280	
Liquid applicator for textiles	68	203
Machine element	74	
Textile spinning operations cyclic	57	319+
Intermodulation		
Distortion test	324	624
Telephone	379	6
Sound recording distortion test	369	58+
Internal Combustion Engines (See Carburetor; Cylinder;decarbonizing; Exhaust, Treatment; Feeder, Fuel; Fuel; Lubrication; Muffler; Piston; Radiator; Starter; Supercharger)	123	
Backfire preventer	48	192
Dynamo combined	290	7
Exhaust treatment	60	272+
Combustion products with	60	39.5
Fluid pressure motor combined	60	598+
Freg piston drive	60	596
Vacuum generated	60	397
Waste heatdriven motor	60	597
Locomotive drive	105	62.1+
Pump drive	417	364
Refrigeration utilizing	62	323.1+
Turbine combined	60	598+
Interpoles	310	186
Interpolymers (See also Synthetic Resin or Natural Rubber)	520	1+
Interrupter		
Electric	200	
Body application system	128	423R+
Electrolytic	361	435
Generator control	322	69+
Sheet feeding	271	263
Systems	307	96+
Printing		
Bed and platen	101	287+
Inker	101	335+
Multicolor	101	171+
Planographic multicolor	101	135+
Planographic rotary	101	141+
Rolling contact bed and cylinder	101	282+
Rolling contact rotary	101	216+
Sheet feeding	271	256+
Signature gatherer	270	56
Interval Generator Electrical	328	129.1+
Intervalometers	200	35R+
Intervalometers systems	307	141.4
Intestines		
Cleaning	17	43
Removing	17	58+
Intravenous Devices	D24	52
Intrenching	42	93
Tools	294	49+
Cutter combined	7	116+
Invalid		
Beds	5	60+
Chair design	D12	128+
Feeding devices	414	9
Litters and stretchers	5	81R+
Mattresses	5	431+
Inventories	283	55
Computer controlled, monitored	364	403
Invert Sugar	127	41
Inverter (See Derectifier)		
Iodic Acid	423	481
Iodides	423	462
Iodine	423	500+
Medicines containing inorganic	424	667+
Medicines containing organic	514	1+
Iodoform	570	181
Ion		
Exchange, liquid purification	210	660+
For actinide series compounds	423	249+
For thermonuclear reactors	376	146
Exchange, synthetic polymers	521	25
Treating polymers with	528	482
Generating chamber		
Gas tube	313	567+
Mass spectrometer type (See ion source)		
Vacuum tube having	313	230
Implantation apparatus	315	111.81
Liquid purification	210	660+
Source for mass spectrometry	313	564
Electrical system for	315	111.81
Having heating means	313	550
With spectrometer	250	281+
Trap	335	210+
With cathode ray tube	313	424+
With TV picture tube	313	424+
Ion Selective or Ion Sensitive Electrode	204	416+
Chemical analysis, apparatus	422	82.3
Dissolved gas	422	82.5
Ionization		
Chamber radioactivity	250	335+
Gauge	250	374+
Geiger muller tube	313	93
In thermonuclear reactions	376	100
Tissue equivalent	250	472.1
With tissue equivalent gas	250	336.1
Ionomer Resin Systems (See Synthetic Resin or Natural Rubber)		
Ionones	568	378
Iraser		
Amplifiers	330	4.3
Oscillators		
Iridium		
Alloys	420	461
Filaments	75	
Inorganic compound recovery	423	22
Preparation		
Electrolytic	204	109+
Hydrometallurgy	75	711+
Pyrometallurgy	75	631
Iron (See Ferrous Alloys; Ironing Devices; Metal)		
Bridge girder	14	17
Curling hair	D28	38
Dies for making		
Plow and cultivator	72	472
Railway car	72	343+
Railway track	72	343+
Vehicle land type	72	470+
Electrolysis	204	112+
Founding	164	
Gas injection	75	528+
Inorganic compound	423	
Coating or plastic composition	106	286.3
Oxide or hydroxide	423	632
Tanning	8	94.28
Making		
Flanged bar rolling	72	190+
Plow and cultivator	29	14
Structure member	29	897+
Misc. chemical manufacture	156	DIG. 74
Ore beneficiating	423	1+
Ore briquetting and binding	75	746+
Electrometallurgical treatment	75	10.1+
Organic compound		
Azo	534	692+
Carbocyclic or acyclic	556	138+
Ferrocenes	556	143+
Protein or reaction product	530	400
Pigments	106	456+
Plate	428	681+
Preparation	75	
Electrolytic	204	112+
Inorganic medicinal	424	646
Organic medicinal	514	184
Pyrometallurgy	75	433+
Combined with hydrometallurgy	75	416+
Railway		
Grab	105	461
Jacking poling roping	105	462
Ship	114	79R+
Mast	114	94
Spar	114	100
Soldering	D10	46+
Steam	38	77.1+
Structural elements	52	
Tools		
Branding electrically heated	219	227+
With indicia	101	31
Branding with heating burner	126	402+
Curling electric	219	222+
Curling with heating burner	126	408+
Flat	38	74+
Glass blow	65	300+
Sadiron electric	219	245+
Sadirons with heating burner	126	411
Soldering	228	51+
Soldering electric	219	229+
Soldering with heating burner	126	413+
Vehicle land type		
Body stay	296	42
Chafe	280	161+
Hay rack body	296	9
Running gear	280	149
Top	296	119
Walking	128	83.5
Working (See metal, treatment; metal, working)		
Wrought producing	75	438+
Irone	568	378
Ironing Devices		
Attachment		
Cord plug	439	
Cord support	248	51
Board	38	103+
Convertible to ladder	182	28+
Design	D32	66
Collar cuff neckband	223	52.1+
Electrically heated	219	245
Hat type	223	21
Heating stoves		
Liquid or gaseous fuel	126	230
Solid fuel	126	227+
Iron with light	362	117
Ladder convertible to ironing board	182	29+
Laundry iron or press	D32	9
Plaiting fluting shirring type	223	36
Self heating burner	126	411+
Tables for textiles	38	103+
Textile smoothing or pressing	38	
Implements	38	69+
Machines	38	1R+
Thermostats	236	7
Tobacco	131	324+
Stemming combined	131	315+
Irradiation (See Radiant Energy)		
Coating	427	35+
Nuclear conversion (See also nuclear reaction or reactor)	376	156
Irrigation		
Channel	405	118+
Furrow plow and roller	172	176
Mobile, ambulant pipeline	239	726+
Nozzles	239	542
Pipe coupling	285	5+

	Class	Subclass
Plant-husbandry		
Germinator for seeds	47	61+
Plant cover shade and screen	47	27
Plant receptacle	47	79+
Subsoil	47	48.5
Subsoil	405	35+
Syringe	604	187+
Isatin	548	485
Isethionic	562	108
Isinglass (See Glue)		
Isoburneol	568	820
Isobutylene Polymers (See also Synthetic Resin or Natural Rubber)	526	348.7
Isochondodendrine	546	34
Isocyanates		
Esters	560	330+
Fiber modification, carbonate &	8	DIG. 11
Inorganic	423	364
Polymer product derived from or containing (See synthetic resin or natural rubber)		
Cellular porous product	521	50+
Isocyanurate Cellular Product	521	902*
Isodibenzanthrone	552	276
Isoeugenol	568	652
Isoindoles	548	470
Isoindolines	548	482
Isomerization		
Fatty oils	260	405.6
Mineral oils	208	46+
Of hydrocarbons	585	
Alicyclic synthesis		
By double-bond shift	585	377+
By double-bond shift in side chain	585	363
By ring opening or shift	585	353
Aromatic synthesis	585	477+
In addition to alkylation	585	332
In addition to hydrogenation	585	253
Olefin synthesis, double-bond shift	585	664+
Paraffin synthesis	585	734
Isoniazid, in Drug	514	354
Isonitriles	558	302
Isophorone	568	377
Isoprene (See Diolefin Hydrocarbon)	585	601+
Polymerized solid (See also synthetic resin or natural rubber)	526	335
Isopropylphenol	568	781
Isoquinolines	546	139+
Isostatic Pressing		
Powder metallurgy	419	49
Isothiazoles	548	206+
Isothiocyanate Esters	558	17+
Isotope		
Actinide group metals	75	393+
Comparator	250	281+
Detection	250	281+
Exchange, in hydrocarbon synthesis	585	941*
Nuclear conversion reactions	376	156
Nuclear fuel material	376	421
Nuclear fuel material	376	356
Nuclear fuel material	376	171
Radioactive composition	252	625
Radioactive metal composition	420	1+
Separatory distillation of	203	5
Using wave energy to enrich or separate	204	157.2+
Isourea	558	8
Isovialanthrone	552	276
Isoxazoles	548	240+
Itaconic Acid	562	595
I U D		
Pessaries	128	834+
X-art collection	525	937*
Izod Test	73	844
J Acid	562	70
Jack Shield	174	35R
With jack	439	
Anti inductive shield	439	607+
Metallic cover	439	892+
Mounted on jack support	439	527+
Jack-in-the-box	446	310
Jack-o-lantern	362	257+
Jackets	D 2	183
Boiler	122	
Bottle or jar	215	12.1+
Bullet making	29	1.23
Container, metal	220	415+
Cupola water	48	67+
Dispenser part	222	
For expansible chamber device	92	144
Garment	2	
Design	D 2	
Heat exchange	165	154+
Insulating , for beverage container	220	903
Internal combustion engine	123	41.72+
Mineral oil boiler	196	119
Mold	164	394+
Nuclear fuel	376	457
Safe reinforcement	109	24
Jackknife	30	155+
Jacks		
Bending 3 point	72	389
Boot	223	114+
Floor	254	11+
Hydraulic	254	93R
Crane hoist cable	212	250
Crane mast	212	203
Motor and pump	60	325+
Jack or jack stand	D34	31
Knitting needle	66	123+
Double end machine	66	63
Jacquard machine	66	215+
Pipe or rod	254	29R+
Pump	74	41
Rack and pinion	254	95+
Roller for conveyors	193	42
Screw	254	98+
Shoe last support	12	126+
Smoke for sheds	104	52
Step by step traveling bar	254	105+
Telephone switchboard spring type	379	316
Thill coupling	254	28.5
Traversing	254	84+
Vehicle attached	254	418+
Weighing	177	146
Jacquard		
Card sewing	112	4
Lamp circuit regulation	315	292
Lamp circuit switching	315	316
Looms	139	59+
Switch controlled by	200	46
Jails	52	106
Doors	49	15
Jambs for Doors	52	204+
Safe	109	77
Jams	426	573+
Jellies	426	576+
Jardiniere	47	72+
Jarring (See Agitating; Compacting; Impact; Jiggers)		
Cleaning heat exchanger	165	84
Cleaning screen by	55	300
Cleaning sifters	209	381+
Drive device for tool	173	90+
Packing mold	164	39
Receptacle unloading	414	415
Scale removal by	29	81.15
Vehicle unloading	414	363
Agitation to loosen load	414	375
Jars (See Pot)		
Acid proof	206	524.1+
Battery	429	164+
Design	D 9	
Drilling rig part	175	293+
Fruit jar vises	81	3.31+
Leyden	361	301+
Receptacle	215	
Support	211	74+
Support associated with funnel	141	328
Wide mouth	D 9	367+
Jaw (See Device Having)		
Braces	433	2
Jeans	2	227+
Jellies	426	576+
Jelutong	525	331.9+
Chewing gum	426	3
Jersey		
Knit cloth	66	169R
Jervine	546	15
Jet		
Agitation in leaching or extracting apparatus	422	224+
Air heat exchanger combined	165	123
Article supporting means combined with	126	249+
Bidet	4	420.4
Boiler cleaner	122	390+
Chimney draft regulator	110	160+
Combustion chamber with jet outlet	431	158
Condenser	261	76
Liquid spray	261	115+
Conveyers	406	144
Material in suspension	406	86+
Device making	29	890.1
Dredge combined	37	54+
Fluid nozzle	239	290+
Fuels	149	1
Furnace fuel delivery	110	104R
Liquid heating by	126	379
Marine structure installing	405	226
Mining	299	17
Mixer for tool heater	126	233
Motors	60	200.1+
Aircraft combined	244	4R+
Aircraft propulsion	244	73R+
Aircraft steering	244	52
Discharge nozzle	239	265.11+
Discharge nozzle cooling	239	127.1+
Impeller mounted	416	208+
Processes of operating	60	204+
Projectile	102	374
Pyrotechnics	102	335+
Reaction motor drive	415	80+
Ship propelling	440	38+
Ship steering	114	151
Sprinkler ambulant	239	747
Sprinkler stationary	239	251+
Toy aircraft	446	211+
Toy boat	446	163
Toy spinning device	446	211
Noise muffling at highways		
Blast deflector fences	244	114B
Screen or fence absorbing sound	181	210
Pile installing combined	405	248+
Pipe or cable laying	405	163
Pulverizer		
Apparatus	241	39+
Process	241	5
Pump	417	151
Pneumatic displacement combined	417	86
Sand hopper combined	291	18
Telephone transmitter fluid type	381	165
Jetties	405	34+
Jewel		
Earring pendent	63	13
Gem	63	32
Setting	29	10
Hand tools for	81	7
Working	125	30.1
Holders for while grinding	51	229
Jewelry	63	
Adhesive jewelry	63	DIG. 1
Box, design	D 9	414+
Dresser type	D 3	75
Bracelets	63	3+
Chain	D11	13
Clip, clamp, clasp	D11	86+
Design	D11	1+
Earrings	63	12+
Finger rings	63	15+
Functional fasteners	D11	200+
Garment attached vase	D11	143+
Gem setting	63	26+
Illumination combined	362	104
Lockets	63	18+
Making	29	160.6
Finger-ring forming and sizing	29	8
Gem and jewel setting in metal	29	10
Ornamental pins	63	20
Perfumed jewelry	63	DIG. 2
Plastic jewelry	63	DIG. 3
Setting	D11	91+
Tie clasp or tack	D11	202+
Trays	206	566
Watch and chain attachments	63	21+
Jews Harp	84	375
Toy	446	397
Jibs (See Sails)		
Hoist	212	
Jig		
Drilling	408	72R+
Welding	269	
Woodworking	269	37+
Jiggers (See Agitating; Impact; Jarring)		
Fluid treating of textiles	68	180
Pottery machines	425	263
Pottery machines	425	459
Jigsaw Puzzle	428	33
Jinrikishes	280	63+
Jock Straps	128	158

	Class	Subclass
Jodhpurs	2	227+
Jogger (See Agitating; Impact; Jarring)	271	221+
Joining		
Adhesive for	428	343+
Box corner staying	493	89
Labels	156	
Stamps	156	
Wallpaper	156	574+
Removable layer	428	40
Wire	140	111+
Fabric stay applying clip	140	10
Sleeve deforming machines	29	282
Sleeve deforming tools	29	282
Tire applying with	157	1.14
Joint Packing	277	
Jointing		
Indefinite length conductors	156	49
Saws	76	50.4
Gaging combined	76	46
Staves	147	25+
Joints (See Bond; Connection; Hinge; Seam)	403	
Artifical body member	623	18+
Ball and socket		
Lockable at fixed position	403	90
Pipe	285	261+
Pipe insulated	285	51
Pipe multiple	285	135
Plural	403	56
Road joint, per se	404	47+
Rod to base plate head	403	68
Surgical truss	128	122.1
Thermal expansion sprayer combined	239	397.5
Tripod head	248	181+
Universal	403	122+
Vehicle hitch	280	511+
Vibrating mounts for rod packing	277	100
With static joint	403	76+
Barrel	217	96
Bayonet (See joints closure)		
Pipe joint	285	396
To gun	42	86
Bridge truss	14	14
Building block	52	
Building facings or shingles	52	519
Closure		
Coffin lid	27	17
Safe interfitting	109	74
Safe seals	109	75
Weather strips	49	475+
Electrical	439	
Conduit or cable	174	21R+
Joining indefinite lengths	156	49
Length	156	47+
Rail bonds	238	14.1+
Rail bonds block signal system	246	48
Rail bonds block signal system	246	57
Rail bonds block signal system	246	75
Switch with connector	200	51R+
Fabric fastening (See notes to)	160	382+
Furnace hot air	126	119
Geometrical instruments		
Pivot joints	33	495+
Squares, pivoted	33	465+
Squares, separable	33	478
Making, general (See welding)	228	4.1+
Caulking ships	114	86
Juxtapose and bonding	228	101+
Metal to nonmetal	228	903
Mortar	52	415+
Riveted	227	51+
Sheet metal container making	413	
Static mold	249	98+
Metal		
Receptacle	220	677
To nonmetal bonded	403	265+
Using thermal characteristic	403	28
Metal casting	164	108+
Mining tooth to head	299	91+
Packing ends	277	220+
Paperboard box	229	198.1+
Pavement	404	47+
Static mold for making	249	9
Pipes shafts rods and plates (See joints ball and socket)		
Bedstead	S	282.1+
Fence rail	256	65
Flexible shaft	464	
Packings	277	
Pipe	285	
Pipe dredging	37	72
Piston rod	403	230+
Articulated with piston	403	52+
Railway rail	238	151+
Reinforcing bar	52	719
Rod	403	
Smoking device	131	225
Thill	278	49
Tool to handle	403	
Toy figure	446	376+
Umbrella frame	135	29+
Valve combined	251	142+
Whip	231	6
Railway track	238	151+
Riveted by hollow rivet	227	51+
Riveted by solid rivet	227	51+
Robot	901	28*
Safe wall	109	79
Sectional cabinets joining means	312	111
Showcase	312	140
Snap fitting	29	453+
Stirrup	403	232.1
Stove	126	98
Toy blocks bars sheets	446	85+
Universal (See joints ball and)	464	106+
Vehicle		
Airplane structure	244	131
Animal draft	278	
Articulated land	280	400+
Body land vehicle	296	29+
Body welt land vehicle	280	153.5
Bumper and connections	293	154
Bumper joints	293	155
Felly and rim	301	99+
Freight car granular material seal	105	424
Ship	114	88
Tops land vehicle	296	121+
Wooden box	217	65
Joist		
Bridging floors	52	695
Connection to wall	52	289
Hanger	52	702
Static mold	249	18+
Journal (See Bearing)	384	
Box		
Dust guards	277	130+
Jacks	254	33+
Design	D15	143
Machine elements	384	
Joystick (electrical Input Device)		
Code signal generating	341	20+
Computer	364	709.9
Display	340	709
Game device	273	148R
Resistive	338	68+
Writing	178	18
Juice		
Comminution and extraction	99	510+
Dehydration	426	471+
Juice extractor	D 7	665+
Preservation	426	330.5
Presses	100	104+
Sugar crystallizing	127	58
Evaporating and concentrating	127	61
Extracting	127	43+
Purifying	127	46.1+
Separating	127	53+
Treatment	426	305+
Juke Box	369	30+
Check controlled	194	
Design	D14	173
Selective or remote electric control	369	24+
Jumpers		
Baby chair	297	274+
Railway amusement park		
Gap	104	54
Passenger	104	82
Jumping Jack	446	322+
Jumping Shoes	36	7.8
Junction		
Boxes		
Electrical	174	50+
Metallic receptacle	220	3.2+
Pipe combined	285	128
Switch	200	297
Semiconductor P-N type process of forming	437	15+
Semiconductor process of forming	437	15+
Thermoelectric	136	200+
Thermometer	374	179+
Thermometer zone	374	179+
Tube pneumatic piano	84	57
Junk Yard Crushers & Presses	100	1+
Junket	426	578
Jury Rudders	114	168
Justification		
Counter or indicator for	234	4+
Type casting	199	51
Typesetting	276	28+
Circulating	276	8+
Typewriter letter space	400	1+
K Acid	562	71
K Guns	89	1.1
Kaleidoscopes	350	4.1+
Design	D21	60
Kalsomines	106	
Kanamycin	536	13.7+
Kaolin (See Clay)		
Karaya Gum	536	114
Kauri Gum	530	203
Kayaks	114	347
Design	D12	302
Keels		
Blocks for ships in dry dock	405	7
Rudders mounted on or below keel	114	149
Ship	114	140+
Keenes Cement	106	777
Keepers		
Lock or latch	292	340+
Casing interfitting for swinging door	70	102
Extensible for sliding door	70	96+
Movable checkhook	54	62
Kefir	426	583
Keg (See Barrel)		
Kelly	464	163
Kelp		
Alkali metal inorganic recovery from	423	179+
Iodine recovery from	423	500
Kennels	119	19
Keratins	530	357
Fermentative treatment	435	272+
Kerf		
Cutting		
Mining or disintegrating in situ	299	
Woodworking	144	136R
Guide	83	102.1
Spreading	83	102.1
Ketchup (See Catsup)		
Ketones	568	301+
Ketimines	564	271+
Acyclic	564	276+
Aromatic	564	271
Ketol	568	414+
Ketole (See Indole)		
Ketones	568	303+
Carboxylic acid esters		
Acyclic	560	174+
Alicyclic	560	126
Aromatic	560	51+
Ketone bodies	436	128*
Ketoximes	564	253+
Kettle (See Pot)	220	
Drums	84	419
Furnace	126	345+
Liquid heating	126	373+
Key		
Board		
Code generator	341	22+
Controlled light valves with light conductors	250	227.22
Display control	340	711+
Electric signal systems	341	22+
Keyboard actvated display	340	711+
Musical instrument transposer	84	445
Musical instruments	84	423R+
Design	D17	1+
Operation training	434	227+
Punch machine, selective	234	123+
Registers	235	145R+
Registers key locks	235	27
Typewriter	400	472+
Typewriter key levers	400	496+
Typewriter key locks	400	663+
Cun opening	220	274+
Clock winding	D 8	347+
Code instruction	434	222+
Controlled closure	220	210
Controlled musical instruments	84	1+
Automatic players	84	2+
Cotter type	411	513+
Nail lock	411	356+

	Class	Subclass
Electric		
Signal box transmission	340	287+
Switch	200	
Telegraph	178	101+
Telephone	379	251+
Holders	70	456R+
Case	206	37.1+
Design, cases or rings	D 3	61+
With light	362	116
Hole		
Alarm	116	80
Cover	70	455
Escutcheons	70	452
Guards	70	423+
Illuminator	362	100
Horological apparatus	81	122+
Making	76	114
Winding attached	368	214
Identification tags	283	74+
Lock illuminator	362	100
Lock type (See key hole)	70	393+
Alarm	116	80
Cutting by milling	409	89+
Design	D 8	347+
Holders	70	456R+
Identification	70	460
Insertion guide	70	454
Processes and blanks	76	110
Locking bolt or nut to substructure		
Laterally introduced key	411	137
Longitudianal key	411	110
Locking bolt to nut		
Elongated key, disposed axially	411	216
Elongated key, disposed axially	411	321
Laterally movable key	411	199
Laterally movable key	411	209
Laterally movable key	411	315
Received in each of plural nuts	411	224
Swingable key	411	205
Used with thread lock		
Longitudinal key	411	292
Radial key	411	294
Tangential key	411	300
Mechanism		
Bowed stringed instruments	84	315+
Plucked stringed instruments	84	320+
Morse	178	101+
Operated (See device operated)		
Rail joints utilizing	238	151+
Railway wheel tire fastening	295	19
Ring or fob	D 3	61+
Seater	409	190
Telegraph	178	101+
Torque transmitting	403	355+
Pullers	29	250
Slidable for gearing	74	356+
Keyed Block (See Block)		
Keyer		
In transmitter	375	68+
Alternating current telegraphy	178	66.2
Vacuum tube	328	247
Keystone Blocks	52	575
Kick Plate	16	1R
Kick guard	16	DIG. 2
Kicker	83	707+
Kickers and Blowing Agent Moderators (See Synthetic Resin or Natural Rubber)		
Kier Treatment of Fibers	8	157
Kiln	432	120+
Carbonizing	202	
Drying	34	201+
Kiln	D15	144.1
Kimonos	2	74
Kindler		
Composition	44	542+
Kinematographic Apparatus (See Motion Picture)		
Kinescope		
Cathode ray tube	313	364+
Motion picture	352	129
Television system using	358	242+
Kinesitherapy	128	24R+
Design	D24	36
King Pin	403	
Kingbolts	72	472
Kitchen		
Cabinets	312	
With sifter	312	210.5
Utensils	D 7	368+
Kites	244	153R+
Design	D21	88
Kits		
Camp	206	541+
Convertible to table	190	12A
Diagnostic	206	569
Lunch	206	541+
Mess	206	541+
Photographic	354	278+
Pocket stove	126	38
Signal for trainmen	246	488
Toilet kit	132	286+
Absent special toilet articles eg, mirror	401	118+
Klystron	315	5+
Amplifier	330	45
Demodulator	329	
Modulator	332	
Oscillator	331	83
Reflex	315	5.18+
Knapsack	224	209+
Backpack convertible to other devise	224	153
With belt	224	215
Kneader (See Mixer)		
Bread board	269	302.1
Bread, pastry or confection	366	69+
Implements	416	70R
Surgical	128	60
Vulcanizable gums		
Apparatus	425	197+
Apparatus	425	200+
Knee		
Action		
Running gear springs	280	688+
Shaft transmission mechanism combined	180	348+
Stub axle mounts	280	96.1+
Vehicle spring devices	267	228+
Artificial	623	39+
Knee bone	623	20
Garment protectors	2	62
Length trousers or overalls	2	228
Lock for composing stick	276	39
Operated control lever or linkage	74	515R
Pads or rests	2	24
Ship	114	87
Support surgical table combined	269	
Vehicle runner	280	27
Kneehole Desk	312	194+
Knife		
Box or holder	D 7	637
Changing	83	954*
Cutlery	30	138+
Cutting	76	82+
Design	D 7	649+
Electric or battery driven	D 7	646
Hand manipulable cutting	30	
Additional tool combined	7	151+
Handles	D 8	DIG. 4
Harvester	51	36
Clamp	51	222
Holder, body or belt attached	224	232
Knife edge texturing	28	260
Machette or hunting knife	D22	118
Machine knife in situ	51	246+
Processes	51	285
Rest	248	37.3+
Sharpener attachment for food mixer	D 8	35
Sharpener, powered	D 8	63
Snap type	200	472
Solid material comminution	241	291+
Swaging	76	89.2
Switch, knife blade	200	554+
Knit Fabrics and Articles	66	169R+
Caps	2	201
Design	D 5	47+
Knit-deknit texturing	28	218
Neckties	2	147
Knitting		
Darning	66	2
Design	D 5	11+
Fabric manipulation	66	147+
Fabric or article	66	169R+
Feeding	66	125R+
Looper pin & hook	66	3+
Machines		
Elements	66	90+
Needles (See needle & needle)	66	116+
Independent needle machines	66	7+
Needle beds	66	114+
Needle cooperating elements	66	90+
United needle machines	66	78+
Pattern mechanism	66	231+
Reknitting	66	1.5
Sheaths	30	151+
Stopping	66	157+
Additional tool combined	7	158+
Knobs	16	121+
Bed post ornament	5	281
Combination lock operator	70	445
Door	292	347
Attaching devices	292	348+
Bearings	292	356
Design	D 8	300+
Rose plates	292	357
Insulated	16	118
Label combined	40	331+
Lock combined	70	207+
Machine element	74	553
Making		
Deforming sheet metal	72	
Metal	29	161
Pull or	D 8	300+
Signal combined (See knob)	116	
Knockdown		
Beds and cots	5	
Box wooden	217	12R+
Bureaus	312	266+
Cabinets	312	257.1+
Cooking rack	99	449
Crate wooden	217	43R+
Desks kneehole type	312	195
Foundry core bar	164	400
Freight car	105	363
Hand rake	56	400.19+
Hold knife or razor	30	332
Ladder	182	194
Pedestal table	108	150
Picture frames	40	155
Razor	30	47
Reel	242	115
Sifter support	209	414
Stand	248	529
Plural leg	248	165
Receptacle	248	150
Stoves	126	9R
Toys	446	85+
Velocipede	280	278
Frames	280	287
Weighing scale	177	126+
Knockers		
Boll hulling combined	19	37
Breaker combined	19	36
Cable hoist	212	116
Door	D 8	401
Sifting element	209	382
Knockouts	220	265+
Knot and Knotting (See Tying)	289	
Book sewing machine	112	22
Detector	28	227
Harvester		
Compressing and binding	56	433+
Cutting conveying and binding	56	131+
Raking and bundling	56	343
Mesh fabric	87	53
Making	87	12
Necktie	2	148+
Sash cord	16	207
Sewing machine stitch former	112	156
Strand joint	403	
Wireworking	140	101
Knuckle	213	100R+
Knurling Metal	72	703
By rolling	72	191+
Methods & apparatus	29	DIG. 23
Kraton T M (See Synthetic Resin or Natural Rubber)		
Kraut	426	
Canned	426	131
Kyropoulos Type Crystallization	156	616.3
Label		
Clothing label	D 5	63+
Design	D20	22+
Exhibiting	283	81+
Gumming apparatus	118	
And applying	156	
Dynamic information storage and retrieval	360	
Identifying plug tobacco	131	368
Label or tape embossing tool	D18	19+
Labels	283	81+
Magnetic bubbles	365	1+

	Class	Subclass
Read only memories	365	97+
Static information storage and retrieral	365	
Obliterating stamp scarifier	81	9.21
X-art	493	961*
Labeling (See Digests 1-51)	156	
Cigarette packaging machine	131	281+
Fabrics or deformable surfaces	156	DIG. 19
Feeding	156	DIG. 28
Flat rigid surfaces	156	DIG. 1
Magazines	156	DIG. 29
Manual dispenser	156	DIG. 48
Non-flat surfaces	156	DIG. 5
Plug tobacco	131	113+
Tobacco products	131	106
Laboratory Apparatus	422	99+
Burettes	422	100
Cabinet	312	209
Elements	422	99+
Laboratory equipment	D24	
Monitor nuclear	250	472.1
Scintillation type	250	483.1
Labyrinth	272	19
Memory systems		
Dynamic electric information storage and retrival	369	
Dynamic magnetic information storage and retrival	360	
Packing	277	53+
Lace		
Digest art	D 5	47+
Table cloth	D 6	617+
Tipping	425	807*
Laces and Lacings		
Belt end connectors	24	34
Belt operated corset closure	450	119
Design, narrow	D 5	11+
Garment supports	2	326+
Knot or end holders	24	712.1+
Lacing and unlacing machines	12	58.5
Lacing device	24	712+
Making	87	
Fiber destruction by chemicals	8	114.6
Packages for	206	49
Sewing machine for lacing or whipping	112	121.2
Shoe lacing machine	12	58.5
Shoelace fasteners	24	712.2+
Shoelaces	24	715.4+
Design	D 2	316
Stud making	29	12
Stud setting machine	227	51+
Tipping	72	282
Lacquer (See Varnish)		
Cellulose ether or ester (See also synthetic resin or natural rubber compositions)	106	169
Synthetic resin or natural rubber (See class 523, 524)		
Lacrosse	273	326
Lactams		
Caprolactam	540	485+
Delta lactams eg alpha piperidone	546	243
Gamma lactams, eg alpha pyrrolidine	548	543+
Isatins	548	485
Naphthostyrils	548	437
Lactic Acid	562	589
Preparation from carbohydrates	562	515
Fermentation	435	139
Lactide	549	274
Lactometer	73	32R+
Lactones	549	263+
Poly hetero O		
5 membered ring	549	296
6 membered ring	549	274
7 membered ring	549	267
Lactose	127	31
Ladders	182	194
Attached supports	248	210
Bracket attachments	248	210+
Scaffold or shelf type	248	238
Chute or escape combined	182	49
Collapsible	182	156+
Convertible	182	21+
To chair	182	33+
To scaffold	182	27
Design	D25	62+
Door combined	182	77+
Elevating platform	182	101+
Extension	182	207+
Fire trucks	280	4
Hose or nozzle support	248	76
Attached	248	77+
Land vehicle	182	127
Platform detachable	182	120+
Propped	182	165+
Safety devices for	182	107+
Scaffold support	182	116+
Self sustaining	182	180
Sleeping car	105	326
Wall or floor attached	182	93+
Ladles	141	110
Glass handling	65	324+
Hoist traversing	212	130
Kitchen	30	324+
Design	D 7	691
Metal dispensing type	222	
Molding device with	164	335+
Lagging		
Reels	206	398+
Lake		
Dye fixing with	8	
Mordanting metal	8	
Tannate combined	8	596
Pigments containing	106	402
Laminate (See Class 428 Glossary)	428	
Abrasive tool		
Flexible cylindrical	51	358+
Making	51	297
Rigid cylindrical	51	207
Belt transmission	474	237+
Brushes rotary	15	181
Building constructions	52	408+
Curvilinear	52	267
Building panel	52	662
Conductors insulated	174	120C+
Electrode for electrolysis	204	290R
Glass	428	426+
Making	156	99+
Hinges	16	372
Insoles	36	44
Making	156	
Coating and stripping	264	
Coating apparatus	118	
Coating processes	427	
Metallic	428	615+
Nuclear fuel structures	376	416
Panel fences	256	24+
Pipe	138	140+
Flexible	138	137+
Pulleys	474	166+
Rail bonds	238	14.1+
Shoe parts	12	
Sole leveling	12	33+
Soles	36	30R
Stencils	101	128.21
Wipers, eg blackboard erasers	15	223+
Wood	144	
Lampblack	423	445+
Agglomerating	23	314
Apparatus	422	150+
Electrostatic field or electrical discharge preparation	204	173
Lamps (See also Electrode)		
Arc	313	
Barrel illumination	362	154
Bicycle	362	72
Burner		
Camera attached light	D16	239+
Candle in lantern	362	161
Candle simulating	362	157+
Carburetors for	48	144+
Chimney cleaners	15	211+
Chimneys	362	312+
Consumable electrode type	314	
Daylight illuminating fixture	362	1
Daylight lamp structure	313	110+
Fluorescent material type	313	486+
Design	D26	
Diagnostic	128	23
Dimmer structure	323	905*
Discharge device, energizing	315	
Disinfecting, ultraviolet	250	504R+
Dough raiser	126	282
Egg candling		
Box with lamp control	356	67
Lamp attachment	356	68
Electric	313	
Arc lamp	313	41
Arc lamp electrode feeding	314	
Arc lamp gas or vapor	313	567+
Arc lamp mercury vapor	313	163+
Automatic substitution of filament	315	65
Circuit element in multiple filament	315	64+
Connectors for clusters of	439	638+
Consumable electrode	314	
Exhausting	141	65
Filament compositions	252	500+
Filament for gas or vapor lamps	313	341+
Filament shapes	313	341+
Gas filling	141	66
Gas or vapor	313	567+
Glassworking apparatus for making	65	152+
Glassworking processes for making	65	36+
Glow discharge	313	567+
Incandescent bulb manufacturing	445	27
Mercury vapor	313	567+
Multiple filament	313	316
Nernst	313	14
Portable self contained	362	157+
Reflector built in	313	113+
Repair apparatus	445	61
Repair processes	445	2
Sockets	439	
Sockets rheostat combined	338	70+
Space discharge device manufacturing	445	
Systems of supply for	315	
Electrophotographic copier	355	228+
Extinguishing devices	431	144+
Flashlight	362	208+
Camera shutter synchronized	354	126
Photographic type	431	358+
Globe or bowl	D26	118+
Heater attachment	126	255+
Tool	126	235
Heating with electric	219	552+
Illuminated		
Sign attachment	40	553+
Sign lamp box	40	564+
Incandescent	D26	2+
Inspection	362	138
Magnesium	431	99
Miners	362	164+
Nonwired supply		
High frequency field	315	248
Induction type	315	248
Radio	315	149+
Transformer in lamp	315	57
Ornamental bulb	220	2.1 R+
Fluorescent	313	493
Gas or vapor	313	567+
Reflector	313	113+
Sign	40	541+
Photographic lighting	362	3+
Photographic safe lamp	362	803*
Pole		
Decorative element	52	301
Post combined with	D26	67+
Shades	362	351+
Design	D26	118+
Making	493	950*
Rotating	362	35
Signal lamp, horn combined	116	3
Signaling devices having	340	
Design	D10	111+
Socket	D13	134
Stands	362	382+
Switchboard	379	315+
Testing of	379	20
Therapeutic	128	396+
Tool heater combined	126	241
Vehicle	362	61+
Water heater type	126	358
Wick trimmers	431	120
Wicks	431	325
Lampworking		
Glass manufacturing	65	
Lances		
Bomb	102	371
Fishing	43	6
Metallurgical	266	225+
Lancet	606	181+
Land		
Anchors	52	135+
Markers for plows	172	126+
Rollers	404	122+
Land Vehicle (See Specific Types)	280	
Air bags	280	728+

	Class	Subclass
Amphibious boats		
Airborne	244	50
Vertically adjustable wheels	280	43*
Animal draft appliances	278	
Attachments	280	727*
Auxiliary article compartments		
Add-on debris carrier	224	273*
Built-in general	296	37.1*
Bodies and tops	296	
On & off freight container	410	52*
Dumping	298	
Mechanical manufacturing	29	400.1*
Motor driven	180	
Passenger safety guards	280	748*
Seat belts	280	801*
Space tire compartment	296	37.2
Tires and wheels resilient	152	
Toilets	4	458*
Vertically adjustable wheels	280	43*
Wheel substitutes	305	
Wheels and axles	301	
Landfill	405	129
Landing Devices		
Aircraft		
Carriers	114	261
Fields	244	114R
Landing gear	244	100R*
Retarding and restraining	244	110R*
Elevator stop	187	32*
Chair	187	75*
Field or platform, floating		
Illumination	362	145*
Mats	404	35*
Mooring	244	114R*
Searchlight	362	145*
Moving train	104	19
Language Teaching	434	156
Forms	283	46
Writing	283	45
Laboratory	434	157
Laboratory	434	319*
Lanolin	552	544
Purification	260	420*
Recovery from wash liquors	552	545
Lantern		
Design	D26	37*
Electric	362	261
Flashlight	362	208
Hand lantern support on vehicle	362	61*
Heated dinner bucket and	126	267
Heater and	126	209
Lantern slide binders	40	152
Ornamental	362	806*
Slides	40	152*
Storm	362	159*
Lap Robe	2	46*
Holder vehicle body combined	280	288.4*
Lapidary Work	125	30.1
Lapped Surfacing (See Fiber Construction)		
Lappet Looms	139	49
Lapping Abrading		
Compositions	51	293*
Rigid tool	51	204*
Without tool	51	26*
Lapping, Chemical	156	625*
Wheeled vehicle combined	280	288.4*
Lard		
Rendering	260	412.6*
Substitutes	426	601*
Larding Pins	17	42.1
Lariats	119	153
Amusement type	446	247
Larner Johnson Type Internal Hydraulic Valves	137	219*
Laryngoscopes	128	10
Larynx, Artificial	623	9
Larynx, Electric	381	70
Laser	372	
Amplifiers	330	4.3
Beam	430	945*
Applications, oscillators		
Communication system	455	609*
Instruments with	33	DIG. 21
Laser induced diffusion of impurities into semiconductor substrates		
Device	357	7*
Method	437	16*
Misc. chemical manufacture	156	DIG. 8
Oscillators		
Printer		
Beam recorder	346	108
Electric photography	346	160*
Photocomposition	354	5*
Used in reaction to prepare inorganic compound	204	157.41
Used in reaction to prepare organic compound	204	157.61
Used in reaction to prepare or treat synthetic resin or natural rubber	522	2
Lashes	231	4
Lashings		
Boat	114	381
Cargo on freight carrier	410	96
Freight car	105	375
Lasso	119	153
Lasting		
Continental type machine	12	10.7
Lasts		
Darning	223	100
Delasting machines	12	15.1
Design	D15	137
Inserting machines	12	15
Machines for making	12	7*
Dash pots	12	DIG. 2
Fluid actuated	12	DIG. 1
Nailing combined	12	13.1*
Sewing combined	12	13.2*
Processes for making	12	145*
Removing machines	12	15.1
Shoe	12	133R*
Tools	12	107R*
Vulcanizing boots and shoes	425	383
Wire	12	7.9
Latch (See Lock)		
Actuators for knitting machines	66	111*
Bobbin	112	188
Closure fastener	292	
Closure operator combined	49	279*
Stove door	126	197
Design	D 8	331*
Gate	D 8	331*
Hinge combined	16	231
Locks & other hardware	D 8	330*
Operated clutch	192	22*
Project retract pen	401	99*
Releaser closure fastener	292	254*
Switch combined	200	318
Trip	74	2*
Latent Image Formation		
Electrophotographic copier	315	210*
Latex		
Brassiere	450	36
Girdle or corset	450	97
Synthetic rubber or natural rubber containing (class 523, 524)		
Natural rubber latex		
Coagulating	528	936*
Creaming	528	937*
Physical treating	528	934*
Preserving	528	935*
Lath	52	
Holders	144	288.5
Imperforate	52	443*
Slat type	52	342*
Lather Forming		
Foam making	252	307
Gas and liquid contact	261	
Lather maker	366	604*
Spray type	239	343
Lathes	82	117*
Abrading attachments for	51	259*
Boring horizontal	408	
Centers	82	151*
Chucks	279	
Cutoff	82	46*
Cutters and cutter holders for	407	66*
Design	D15	130
Drill holder for	408	238
Milling attachments for	409	165
Planing attachment for	409	328
Punching attachment for	83	
Spinning and fusing sheet metal	228	
Stoneworking	368	10
Straightening shafts in	72	380*
Turret or capstan	29	33J*
Winding and reeling attachments for	242	
Wood saw feed	83	704*
Wood slicer strip cutting feed	144	165*
Wood turning	142	
Wood veneer lathes	144	209R*
Latrines	4	460*
Latrobes	126	523
Lattice	52	660*
Frame for panels	52	455*
Nuclear fuel cores	376	346
Nuclear fuel cores	376	267
Type product		
Static mold	249	60
Wire		
Machines for making	140	25*
Launches	114	
Launching		
Aircraft	244	63
Boat	114	365
Life boat	114	365*
Marine vessels	405	1
Torpedo	114	238*
Toy glider	446	63*
Toy rocket	446	212
Toy vehicle	446	429*
Laundry		
Apparatus	68	
Design	D32	6*
Bag	D32	36
Net or mesh type for use in washing	383	117
Bluing compositions	8	648
Combined washer-drier machine	D32	5
Dry cleaning machine	D32	10*
Drying	34	
Combined washing	68	19*
Household equipment	D32	35*
Ironing	38	
Machinery	D32	6*
Methods	8	137*
Manipulative	8	147*
Sorting	209	937*
Sticks	294	23.5
Tongs	294	8.5
Lauric Acid	260	413*
Laurelectam	540	451*
Lauryl Alcohol	568	840
Production from coconut acids	568	876*
Lavatory	4	650*
Basin supports	4	643*
Building wall attached	52	34*
Lavatory	D23	284*
Soap dish with soap handling means	206	77.1
Law Enforcement Computer Applications	364	409
Lawn		
Aerator	172	21*
Grass	PLT	88
Mower (See harvester)	56	229*
Bar handle hardware	16	111A
Circumferentially spaced blade	172	552
Design	D15	14*
Disc type	56	255*
Motor operated	56	16.7*
Mower-type tongue & crossbar	16	DIG. 38
Reel type	56	249*
Sharpener	76	82.1
Sharpener abrading in situ	51	246*
Small engine starters	123	179SE
Snowplow combined	37	243
Tool driven, laterally extended bar or blade	172	121
Rakes	56	400.1*
Roller	404	122*
Sprinkler	D23	214*
Sweeper	D15	27
Swings	297	245*
Trimmers	172	13*
Laxative	424	
Layers (See Composition; Sheet)		
Bonded	428	
Electroplating	204	40*
Explosive or thermic composition containing	149	14*
Filling of articles	53	531*
Filter	210	290
Filter screen gas separation	55	486*
Layering	47	5.5
Nuclear fuel structures	376	432
Railway track	104	2*
Shoe sole machine	12	29
Signs multiple	40	615
Static mold having super-imposed metal	249	116
Structurally defined	428	98*
Metallic	428	615*
Winding of bobbins	242	26

	Class	Subclass
Laying		
Building facings or shingles	52	747+
Mines	102	411+
Paving blocks	404	99
Pipe or cable	405	154+
Shoe machine for	12	33+
Layout Device		
Clothes	33	11+
Shoes	33	4+
Lays Loom	139	188R+
Lazy Susan	D 7	501
Lazy Tongs		
Bracket	248	277
Collapsible supports	211	202
Drawbridge	14	45
Elevator motor	187	18
Extension ladder	182	157+
Fire escape	182	40
Linkage system	74	521
Mast or tower	52	109
Pushing and pulling elements	254	122
Vehicle fender	293	27
Window operators	49	363
Leaching (See Diffusing; Extracting)		
Apparatus	422	261+
Electrolytic cell combined	204	233+
Metallurgical	266	101
Sugar starch carbohydrates	127	3+
Processes		
Adsorbent reactivation	502	20+
Adsorbent reactivation water only	502	22
Hydrometallurgy	75	711+
Inorganic compounds	423	210+
Lead (See Pencil)		
Acetate	556	105
Alloys	420	563
Copper	420	491
Copper tin	420	474
Battery	429	149+
Chamber processes	423	524
Compound inorganic	423	
Carbonate	423	433+
Chromate	423	592
Electrolytic synthesis of carbonate	204	88
Halide	423	462+
Oxide	423	619
Pigment filler or aggregate	106	432+
Compound organic	556	81+
Stabilization	556	3+
Electrolytic synthesis		
Aqueous bath	204	114+
Fused bath	204	66
Fuses	337	290+
Heat treatment	148	
Hydrometallurgy	75	711+
Misc. chemical manufacture	156	DIG. 85
Paste for batteries	429	225+
Process of mixing	252	182.1
Process of putting on grid	141	1.1
Plate	428	645
Electrolytic	204	53
Pyrometallurgy	75	693+
Combined with hydrometallurgy	75	432
Saw adjustments	83	816+
Shields for radioactivity	250	515.1
Shot making	29	1.22
Apparatus for comminuting liquid	425	6+
Processes for comminuting liquid	264	5+
Sounding	33	715+
Styphnates	556	109
Tetraethyl	556	95
Fuel containing	44	454+
Leaded Glass	428	38
Leaders		
Cattle	119	151+
Halters	54	24+
Fair	114	101
Fishing	43	44.98
Boxes	43	54.1+
Magnetic record tape or wire	360	131+
Leaf (See Spring)		
Book binder sheet	402	79
Burner	D34	1.1
Extension table		
Center	108	83+
Circular segment	108	66
Drop leaf type	108	77+
End	108	69+
Hinges	16	387+
Manifolding	282	26+
Books combined	282	8R+
Envelopes	282	25
Strips and books combined	282	2
Means to select	40	532
Metallic type ornamentation	428	17+
Applying apparatus	156	540+
Applying by transfer	156	230+
Packages	206	71
Transfers	428	914*
Music turners	84	486
Paper	402	79
Book	281	38+
Strips combined	281	2
Printed matter	283	61
Sliding leaf	283	65
Resilient wheel	152	1+
Rests	248	441.1+
Rotatable exhibitors	40	493+
Sheet manipulative devices		
Flip, insert, lift, remove	402	80R
Transfer fork	402	80R
Transfer post	402	47
Supports		
Binder device releasably engaging aperture or notch of sheet	402	
Hinge mounted displays	40	530+
Holders combined	248	441.1+
Newspaper type	281	45+
Paper file	211	169.1
Tobacco treating	131	290+
Leak		
Catcher	137	312+
Dispenser combined	222	108+
Heat exchanger combined	165	70
Detectors		
Composition	252	68
Fluid pressure apparatus	73	40+
Heat exchanger combined	165	11.1
Nuclear reactor control	376	250
Nuclear reactor control	376	450
Pipe joint	285	13
System in situ	137	455+
Floatable matter, eg oil, confining or collecting	405	60
Preventers		
Gas distribution illuminating	48	193+
Pipe joint	285	171+
Stoppers		
Composition	252	72
Composition coating or plastic	106	33
Ship	114	227+
Leakage		
Disposal		
Pipe joint	285	13
Electric current testing	324	500+
Learners Instruments		
Golf	273	35R+
Telegraphy	178	115
Leash		
Animal	119	96
Design, dog	D30	153
Collars	119	106
Design	D30	152
Design, dog	D30	152
Leasing		
Looms	139	98
Stopping	139	350
Warp beam	28	198+
Leather	69	
Artificial	428	904*
Bag, flexible	383	
Bating	8	94.17
Fermentive	435	265
Stretching	69	1.5
Beveling machines	69	9+
Bobbins or spools	242	118.32
Cop type	242	118.7
Coating of processes	427	389
Coated article	428	473
Plural coating	427	412
Post-treatment combined	427	389
Striping bordering or edging	427	284+
Compositions containing (See synthetic resin or natural rubber and class 524-11)	106	155
Degreasing	8	139+
Digest, drying & gas or vapor contact with solids	34	
Dyeing	8	436+
Electrolytic treating of	204	135
Embossing	69	2
Embossing	101	3.1+
Extracting oil from	260	412
Fastener made of	269	906*
Fertilizers from	71	18
Fluid treatment, eg tanning	8	94.19 R+
Manipulative	8	150.5
Fulling apparatus	69	33+
Hammering apparatus	69	1+
Handgun holder made of	224	911*
Impregnating compositions for biocidal	424	
Mailbag	383	
Manufacturers, machines	69	1+
Processes	69	21+
Tools	69	20
Work stretcher or holder	69	19+
Pocketbook and portfolio design	D 3	42+
Preserving	8	94.1 R+
Punching	83	
Roughening	69	1
Sewing machines	112	28+
Shoes	36	
Making	12	
Skiving and splitting	69	9+
Softening	69	
Stock material	428	
Laminate	428	473
Stretching frames	69	19.1+
Stuffing with oil	8	94.21+
Tanning	8	94.19 R+
Drums	69	29+
Treating compositions	252	8.57
Workers irons, forging dies	72	343+
Working	69	
Compound tools	7	102+
Leavening Compositions	426	561+
Yeast	435	255+
Leaves (See Leaf)		
Lecher Wires	333	220+
Oscillator combined	331	99
Radio receiver combined	455	130+
Radio transmitter combined	455	91+
Vacuum tube combined	315	39
Lecithin	260	403
Foods	426	662
Lecters	D 6	419
Leer (See Lehr)		
Leeway Navigation Side Slip	/3	180
Leg (See Support)		
Artificial	623	27+
Furniture		
Bathtub	4	594
Bedstead	5	310+
Folding bedstead	5	179+
Folding chair	297	16+
Folding stand leg	248	188.6
Folding stool	248	166+
Folding table	108	115+
Plural folding stand	248	166+
Stand	248	188.1+
Stand detachable	248	151
Stove	126	304R+
Table	248	188.1+
Guards and protectors	2	22
Rest	D 6	501
Bed	5	443+
Chair reclining	297	68+
Vehicle occupant propelled	280	291
Surgical appliance		
Bandage	128	165
Electric applicator	128	783
Orthopedic	128	80R+
Leggings	36	2R
Design	D 2	267
Footless stocking	2	242
Design	D 2	330
Legumes	426	629+
Lehr	432	120+
With cooling means	65	349+
Lemon Squeezers	100	104+
Comminutor combined	99	495+
Lemonade	426	590+
Concentrate	426	599
Effervescent	426	591
Fermented	426	7+
Leno	139	50+
Lens	350	409+
Axis finder	356	127
Blocking or working holding devices	51	216LP+
Catadioptric lens	350	442
Camera structure combines	354	
Cathode-ray tube combined	358	

	Class	Subclass
Cathode ray tube		
Structure	313	317+
System	315	14+
Cleaner		
Brushing	15	
Composition	252	89.1+
Scrubbing	134	
Coated	350	165
Coating method	350	320
Coating per se	350	165
Combined with electric lamp	313	110+
Contact for eye	351	160R+
Contact lens fitting	351	247
Design	D16	134+
Echelon lens	350	451
Electromagnetic wave	343	909
Dielectric type	343	911R
With antenna	343	753+
Zoned type	343	910
Electron microscope	250	311
Eye glasses	351	159+
Finder	354	152+
Fog lamp	362	317+
Fresnel lens	350	452
Galilean telescope	350	453
Gauge	33	507
Grinding machines	51	284R
Design	D15	124+
Hoods	350	580+
Intraocular	623	4+
Lenticular elements	350	167
Light fixture	D26	120+
Luneberg type	343	911L
Making	65	37+
Grinding machines	51	
Grinding processes	51	284R
Shaping glass surfaces	65	61
Uniting glass	65	37+
Marker gage	33	200
Mold	425	808*
Moulding glass while hot	65	66+
Moulding plastic	425	
Mounts and holders		
Eye glasses and spectacles	351	41+
Light source combined	362	455+
Sidewalk light transmitting	350	409+
Optical	350	409+
Panoramic lens	350	441
Periscope	350	540+
Projector combined		
Antiglare	362	351+
Reflector combined	362	341+
Reflector signal combined	350	104+
Refracting combined	362	326+
Schmidt lens	350	443
Shades	350	580+
Sidewalk light transmitting	404	22+
Spectacles	351	159+
Lens lining or rims	351	154
Spectacle mountings	351	83+
Telephoto	350	454+
Testers	356	124+
Thermometer tube combined	374	194
Toroidal lens	350	434
Fuse or primer combines	102	200+
Variable focal length	350	423+
Zoom lens	350	423+
Lenticular	430	946*
Lepidine	546	181
Letoff (See Clutch; Ratchet)		
Warp	139	100+
Letter Box	232	17+
Closures and chutes	232	45+
Design	D99	29
Electric switch combined	200	61.63
Letter Opener	D 8	102
Lettering Guides, Stencils	D19	40
Letters Sign Interchangeable	40	618+
Lettuce		
Planters	111	914*
Levees	405	107+
Leveling		
Apparel	33	7
Clocks	248	188.4
Furniture	248	188.2+
Caster adjustment	16	19
Illuminated	33	348.2
Load levelers	267	64.16+
Metal straightening	72	160+
Wire fabric	140	107+
Railway trucks	105	164
Self leveling supports	114	191+
Shaft	33	412
Sole machines		
Fastener inserting and laying combined	12	33.1
Laying combined	12	33+
Straightedge geometric instrument	33	451
Wall guide & plumb	33	404+
Suspended railway car	105	149
Track	33	287
Tripod or stand head	248	180
Self leveling	248	182
Vehicle body land type	280	840+
Body relative to wheels	180	41
Steam boiler body	180	39
Levels (See Leveling)	33	365+
Illuminated	33	348.2
Light ray type	33	290
Liquid		
Alarm electric	340	618+
Alarm mechanical	116	109+
Dispenser material level control	222	64+
Gauge	73	290R+
Indicator	116	227+
Responsive or maintaining systems	137	386+
Material level detection	367	908*
Plumb	33	392+
Spirit level	D10	69
Lever	74	519+
Design	D 8	88
Flexible material tensioning	254	243
Carpet	254	209
Floor jack	254	17
Handle, asymmetric	D 8	DIG. 1
Link systems	74	469+
Locks	70	192+
Switch combined	70	254
Switch combined	200	61.85+
Nail extractor	254	21+
Pushing or pulling implement	254	120+
Rail or tie shifters	254	44
Shaft coupling	403	
Treadle	74	561
Vehicle spring	267	228+
Levigation		
With electric heating	219	7.5
Levitation & Reduced Gravity	156	DIG. 62
Magnetic railway	104	281+
Levulinic Acid	562	577
Esters	560	174
Lewises	294	89
Lewisite	556	70
Lexan T M (See Synthetic Resin or Natural Rubber)		
Leyden Jars	361	301+
Liberating		
Fermentative	435	262+
Fibers chemical	162	1+
Fibers mechanical	19	1+
Library Security by Metal Detection	340	568+
License Plate		
Design	D20	13+
Frames	40	209
Frames	40	152+
Holder with light	D26	31
Jewel reflectors	350	97+
Licorice	426	638
Lid (See Closure; Cover)		
Applying	53	287+
With compacting of contents	100	54+
Burner	431	144+
Car journal	384	189+
Lifter	294	12+
Lock	70	158+
Manhole	404	25+
Purse	150	119
Railway ties tubular type	238	70+
Retort	48	124
Stove	126	211+
Lie Detectors		
Electrocardiograph	128	697
Life Boats	114	348+
Design	D12	316+
Life craft handling devices	114	365+
Life Preservers	441	88+
Aquatic lifesaving devices	441	80+
Design	D21	238
Life vests	441	106+
Racks	114	190
Life Rafts	441	35+
Life Sciences, Computer Applications	364	413.1+
Life Signals		
Computer controlled, monitored	364	413.2+
Signalling from burial grave	27	31
Undertaking equipment	27	31
Lifesaving Apparatus		
Aquatic	441	80
Artificial respiration	128	28+
Buoyant devices	99	311
Drowning prevention	441	80
Fenders	293	
Fire escapes and body catchers	182	137+
Parachutes	244	142+
Submarine emergency equipment	114	323+
Supporting and launching boats		
Handling equipment	114	365+
Watercraft lowering drum	254	266+
Lift Modifiers for Aircraft	244	198+
By flap or spoiler	244	213+
Lift Trucks		
Elevator type	187	9R
Handling assistant	414	444
Jack type	254	2R+
Running gear lifts	280	43+
Lift-slab Construction	52	125.1
Lifts, Lifters, Lifting (See Conveyor; Dispensing; Elevator)		
Aircraft	244	34R
Apparel skirt	2	217
Boat	171	50+
Boat	171	103
Belt shifter	474	101+
Bridge lifts	14	42
Canal lock raising	405	86
Car coupling link	213	192+
Car journal box	254	33+
Cartridge	42	17
Clutch for plow	192	62
Copyholder platen	40	349+
Damper musical instrument	84	217
Dobby	139	71+
Door	414	684.3
Traversing hoist	212	166
Drawbar locomotive	213	5
Drum sifter	209	294+
Foot sewing machine	112	237+
Harvester cutter	56	273
Harvester cutter bar	56	283+
Harvester cutter bar finger	56	312+
Harvester cutter bar with rocking	56	276+
Harvester reels	56	364
Hinge combined	16	233
Hoist	254	266
Horse drawn rake	56	397+
Incline plane	254	88
Invalid beds	5	60+
Invalid from bed	5	81R+
Jacquard	139	65
Lantern globe	362	174+
Magnets		
Electric	335	291+
Electro combined	294	65.5
Multiple	254	89R+
Pallets fork lift	108	51.1+
Pawl driving	74	149+
Pawl holding	74	155
Pipe or rod	254	30+
Planer cutter	409	347
Planter tool bar	111	67+
Plate and receptacle	294	27.1+
Plows	172	
Clutch	192	62
Control	172	452+
Plant	172	517
Power take-off	172	492
Servomotor actuator	172	491
Pot lid	294	12
Rail or tie	254	121
Shelf loading type	414	246+
Horizontal & vertical movement	414	260
Ships and boats	405	3+
Spool in winder	242	46
Thread boards	57	360
Traction cable	104	199
Valve lift regulation	123	345+
Vehicle body	254	45+
Ligaters	606	139+
Ligatures		
Packaged	206	63.3
Structure	606	228+
Light (See Electric; Electrooptical; Illumination)		
Arc lamp	314	

	Class	Subclass
Automobile	362	61+
Battery light plants	320	2+
Beam splitting	350	169+
Bicycle	362	72
Building	350	258+
Bulbs	313	315+
Design	D26	2
Buoys floating bodies	441	16+
Burglar alarms light producing	116	7
Christmas	D26	25
Communication	455	600+
Multiplexing	370	1+
Conductor	350	96.1+
Body treatment type	128	398
Connecting roos	350	96.1+
Controls	315	
Time controlled	315	360
Decorative	362	806*
Direction instruments	33	1DD
Dispersion	350	168
Dividers	350	169+
Electric lamp	313	
Electric lamp supply systems	315	
Emitting diode	357	
Display matrix	340	782
Filter	350	311+
Compositions	252	582+
Infra-red	350	1.1+
Ultra-violet	350	1.1+
Fixture	D26	24+
Fluorescent screen	250	458.1
Game target and light ray projector	273	310+
Globes	362	363
Grating	350	162.17+
Illumination		
Advertizing signs	40	541+
Extinguishing gas		
Intensifier	250	213R+
Interference	350	163
Invisible light	250	493.1
Lens or glass for fixture	D26	118
Light pipe sign	40	547
Measuring testing meters	356	213+
Electrooptical batteries	136	243+
Invisible light and X rays	250	336.1
Photocell controlled circuit	250	200+
Photocell electronic type	313	523+
Photometers	356	213+
Photosensitive resistors	338	15+
Pyrometers	356	43+
Meters	356	213+
Modulation	350	353+
Mountings	362	382+
Musical instrument producing light effects	84	464R
Parachute flares	102	337+
Pen display control	340	707+
Periscopes with	350	540+
Ports ships	114	177+
Position or condition responsive switch	362	802*
Post combined with	D26	67+
Projectors (See projector)		
Ray type geometrical instruments	33	227+
Reflectors	D26	118+
Responsive explosive igniters	102	201
Marine mines	102	418
Mines	102	427
Rod		
Decorative element	52	301
Seals photographic plate holder	354	277
Sensitive (See photoelectric cells)		
Color film photographic	430	541+
Compositions (See fluorescent, compositions)	252	501.1
Film photographic	430	495+
Film sensitizing	430	570+
Film sensitizing and developing	430	486+
Resistances	252	501.1
Shade holders	362	433+
Ships running light	362	61+
Side or cross walk light transmitting	404	22+
Signs	362	253
Sockets	439	660+
Stage illusion	272	10
Stage lighting systems	315	291+
Stage lighting systems	315	313+
Sterilizing and pasteurizing ultra violet	426	248
Straightline light ray instruments	33	227+
Supports	362	382+
Surgical applications	128	
Switch for portable	200	60
Table	362	97
Tents having light means	135	91+
Tool heater combined	126	232
Torches pyrotechnics	102	336+
Track-type light	D26	61+
Transmission modifying compositions	252	582
Displays color change	252	586
Infrared	252	587
Modification caused by energy other than light	252	583
Produces polarized light	252	585
Ultraviolet	252	588+
Used in reaction to prepare inorganic or organic material	204	157.15+
Used in reaction to prepare or treat synthetic resin or natural rubber	522	1+
Valves	350	353+
Illuminating devices having	362	394+
Motion picture apparatus using	352	204+
Optical testing using	356	
Photo electric devices having	250	229+
Sound recording and reproducing using	369	100+
With light conductor	250	227.21
Waves (See search notes to)	250	
Signaling	455	600+
With photocell	250	227.11
With specific illumination/viewing geometry	250	227.29
With specific light conductor component configuration	250	227.27
Light Detectors (See Photocell and Photoelectric Cell)		
Light Guide (See Light Conductor)		
Light Sensor (See Photocell and Photoelectric Cell)		
Lighters (See Igniters)		
Barges	114	26+
Cigar (See igniters)		
Design	D27	141+
Electric	219	260+
Arc or spark	361	247+
Flint packaging	206	528+
Lighting Devices (See Igniter; Illumination; Lamp; Light)		
Lightning		
Arresters	361	117+
Design	D10	105
Gas tube per se	313	567+
Gas tube type	361	120
Manufacture	29	
Resistance	338	21
Space discharge type	313	
Space discharge type combined with impedance	315	58+
With thermal cutout	337	31
Atmospheric electricity	307	149
Collecting with condenser	320	1
Conductor	D10	105
Grounding	174	6+
Rods	174	2+
Static discharging	361	212+
Lignins	530	500+
Compositions containing (See synthetic resin or natural rubber, compositions)	106	123.1
Fiber liberation	162	1+
Lignite		
Fuel	44	608
Briquette	44	592
Mineral oil from	208	400+
Limber	89	40.7
Limbs Artificial	623	27+
Lime	423	635
Burning processes	432	1+
Compositions	106	792+
Adhesive for catching insects	424	77
Alkali metal silicate containing	106	612+
Sulfur combined biocide	424	696
Kilns	432	
Light	431	347
Limit Stop	192	138+
Elevator control	187	34+
Phonograph turntable	369	238
Switch	200	47
Limiter		
Grid controlled electronic tube	328	225
Radio amplifier	330	129+
Linchpin		
Land vehicle combined	301	113
Railway axle combined	295	50
Lincomycins	536	16.2+
Line		
Blind		
Flow restrictor combined	138	40+
Fluid conduit	138	89+
Carrying		
Ammunition	102	504
Fire escape	182	10+
Shell	102	504
Chalk	33	414
Clothesline support	211	119.1
Drying reel	242	104
Electric		
Block signal current supply	246	87+
Polystation telephone	379	177+
Automatic	379	182+
Revertive call	379	178
Signal control telephone	379	179+
Telegraph key	178	103
Telegraph line clearing	178	69R
Telegraphic printing	178	31+
Telephone party register	379	117+
Testing long line telephone	379	22+
Finder telephone switch	379	293+
Fishing	43	44.98
Attached bodies	43	43.1
Float holding	43	43.1+
Reel	242	223+
Rod guide	43	24
Harness	54	36
Lead sounding	33	715+
Markers	33	32.1+
Moving markers	33	32.3
With moving sheet	33	32.4
Stationary marker	33	32.1+
With moving sheet	33	32.6
With moving support	33	32.5
Musical expression	84	463
Printing		
Bars	101	396+
Spacer	101	403
Telegraphy	178	31+
Rat guards for ships	114	221R
Scriber	33	18.1+
Parallel	33	41.1+
Separator type	275	35
Shorting		
To protect amplifier	330	51
Spacer typewriter	400	545+
Wire driven planter	111	43+
Linear		
Brake shoe arrangement	188	240+
Electric motor	310	12+
Railway	104	290+
Plant support	47	46
Traversing hoist	212	71+
Linemans		
Protective device	174	5SB
Spurs	182	221
Linen		
Household	D 6	595+
Liner & Lining (See Bushing)		
Aligning		
Type casting mold	199	58
Modified	199	57
Typewriting	400	16+
Ball or rod grinding mill	241	182+
Bearing	384	276+
Brass railway car journal	384	191.2
Roller bearing	384	569+
Boat	114	69
Box	493	93
Temperature barrier	217	128+
Brake and clutch		
Brake	188	251R+
Clutch	192	107R
Making by laminating	156	
Stock material	428	
Casting mold for	249	87+
Coating	427	230+
Electrolytic	204	26
Rotary	415	170.1+
Tooth	433	217.1
Denture	433	168.1
Composition	523	120
Earthenware pipe	118	708+
Earthenware pipe	118	105
Earthenware pipe	118	125
Earthenware pipe	118	404
Earthenware pipe	425	110+

	Class	Subclass
Earthenware pipe	425	262
Electric conduit bushing	174	83
Electric furnace	373	
Arc	373	71
Induction	373	138
Resistance	373	137
Garment	2	272
Coat	2	97
Glove	2	164
Hat	2	190
Hat try on	2	63
Grave	27	29
Hat	223	22
Lined		
Paper box	220	403+
Pipe	138	140+
Flexible	138	137+
Pipe coupling	285	55
Railway car journal brasses	384	191.2
Smoking devices	131	219+
Bowl or stem	131	204
Walled in space	52	267+
Curvelinear	52	249
With floor	52	265+
Metal bottle cap making	413	8+
Apparatus	413	56+
Metal mold	118	
Metallurgical receptacle	266	280+
Mold		
Compositions	106	38.22+
Earthenware	425	412+
Machine type-bearing or friction surface	249	87
Rotary	415	196+
Railway car interior	105	423
Reactive furnace lining	75	301
Receptacle		
Closure, laminated	156	
Liquid proofed paper	229	3.1
Metal closure making	413	8+
Apparatus	413	56+
Metallic	220	415+
Wooden	217	3R
Temperature barrier	217	131
Shaft	405	133
Shell	86	17
Shoe	36	55
Applier	12	39
Stove	126	144+
Truck bed	296	39.1+
Tunnel	405	150
Umbrella	135	33R+
Lingerie	2	
Closed lingerie clasps	D11	200+
Design	D 2	1+
Lingoes	139	90
Lingual Bars Dentistry	433	190
Linguistic Computer Applications	364	419
Liniments	424	
Link		
Assembling		
Machines	59	25
Sprocket chain	59	7
Belt transmission	474	240+
Sprocket chain	474	202
Button	24	102R+
Chain	59	84+
Antiskid cross	152	243+
Ornamental	59	82
Extension for closures	292	262+
Lock type	70	93
Fabrics		
Bed bottoms	5	188
Flexible panel structure	160	220
Mats floor covering	52	663
Mats scraping	15	239+
Penetration resistant	2	2.5
Wire	245	9
Insulators	174	208
Lever systems	74	469+
Motions in steam engines	91	218+
Railway drawbar coupling	213	208
Cushion connection	213	66
Separation	59	11
Linkers (See Link, Assembling)		
Sausage	17	34
Stuffer combined	17	33
Linking Warp Chains	28	177
Linoleic Acid	260	413+
Linoleum	428	456
Making	156	
Pattern and texture design	D 5	
Rug	D 6	582+
Sheet	D 5	
Linotype TM Machines	199	1+
Laminating	156	
Molding	425	
Linoxyn	260	406
Compositions	106	244+
Linseed Oil	260	398+
Compositions containing	106	252+
Alkali metal silicate	106	620+
Biocidal or fireproofing	106	18
Bituminous material	106	246+
Carbohydrate	106	215
Carbohydrate gum	106	206
Cellulose	106	199
Cellulose ether or ester	106	171+
Inks	106	28+
Natural resin	106	222+
Other fatty oil	106	250+
Polishes	106	9
Portland cement	106	663
Protein	106	124+
Starch	106	211
Sulfurized or sulfonated	106	249
Synthetic resin (See fatty acid triglycerides)		
Wax	106	245
Lint Remover Brush	D 4	
Lintels	52	118+
Beam per se	52	720
Linter		
Ginning type delinter	19	40+
Lip Seal	277	212R
Spring biased	277	152+
Lipids	436	71*
Lipins (See Fats)		
Fermentative liberation or purification	435	282
Lippmann	430	948*
Lipstick		
Brush	D 4	
Compact	401	49+
With light	362	135+
With toilet article, eg mirror	132	297
Compositions	424	64
Design	D28	4
Container	206	385
Holder	401	88+
Design	D28	85+
Shaped applier	132	320
Liquefaction and Liquefiers		
Gas	62	36+
Handling	62	45.1+
Process of	62	11+
Receptacles	220	901*
Refrigerant	62	
Generation of gas and	48	1
Lubricant	184	98+
Vapor condensers	165	110+
Liqueurs	426	592+
Liquid		
Aerating	261	
Spraying, sprinkling deffusing combined	239	428.5
Arc preventing	200	144R
Circuit		
Electrolyte	204	237+
Electrolyte combined	204	234+
Gas and liquid contact apparatus	261	29
Gas and liquid contact with refrigeration	62	310
Gas cooling	62	406
Gas cooling process	62	96
Gas separation	55	229
Heat exchange	165	
Heat exchange tank	165	108
With refrigeration	62	430+
Liquid congealed	62	348
Liquid cooling by refrigerated circuit	62	393
Liquid electrode	204	220
Nuclear reactor combined	376	370
Clarifying	210	
Collection, diagnostic	128	760
Comminuting and solidifying	425	6+
Processes	264	5+
Contact		
Article cooling process	62	64
Discrete commodity cooler	62	373+
Electrode cells	204	250+
Electrode moving	204	219+
Switch	200	182+
Switch electromagnetic	335	47+
Switch expansible liquid	337	331
Switch periodic	200	196+
Switches periodic	200	200+
Switches periodic	200	205+
Switches periodic	200	208
Contact with gas	261	
Carbohydrate defecating	127	12
Gas separation combined	55	220+
Gas separation processes	55	84+
Contact with solids	134	
Apparatus for comminution	241	38+
Lubrication for comminution	241	15+
Seeds during comminution	241	12
Seeds prior to comminution	241	8
Coolers	62	389+
Process	62	98+
Decolorizing		
Filter materials	210	500.1+
Particulate material type separator	210	263+
Processes	210	660+
X-art collection	210	917*
Detectors	422	68.1+
Measuring absorbance	422	82.9
Measuring color	422	82.5
Measuring conductivity	422	82.2
Measuring current		
Generated, consumed or streaming current	422	82.1
Measuring current	422	68.1
Measuring dissolution	422	68.1
Measuring electromotive force (e.	422	82.1
Measuring fluorescence	422	82.8
Measuring impedance	422	82.2
Measuring optical density	422	82.9
Measuring potential	422	82.1
Measuring pressure	422	82.13
Measuring resistance	422	82.2
Measuring temperature	422	82.12
Measuring transmittance	422	82.9
Measuring turbidity	422	82.5
Measuring volatility	422	68.1
Measuring voltage	422	82.1
Dispensers	222	
Extraction by squeezing	100	104+
Feeding nozzles	261	DIG. 39
Fuel	44	300+
Cookers	126	38+
Heating stoves	126	84+
Nuclear reactions utilizing	376	356
Nuclear reactions utilizing	376	356
Solidifying	44	265+
Fuel burners (See retort)		
Gas contact	261	
Gas separation combined	55	
Processes	55	84+
Gas content testing	73	19.1+
Heaters	126	344+
Pressure generators	122	
Level control		
Dispensing controlled by	222	64+
Float valves	137	409+
Tanks	137	386+
Level or depth gauges	73	290R+
Electric	340	618+
X-art collection	367	908*
Telemetric system	340	870.38+
Meters	73	861+
Monitor radioactivity	250	336.1
Proofed	229	3.1
Purification or separation	210	
Refrigerant separation	62	474+
Automatic	62	195
Oil	62	470+
Oil, automatic	62	192+
Oil, process	62	84
Process	62	85
Refrigerated liquid separation	62	319
Process	62	85
Seals		
Bellows or	156	DIG. 93
Dispensing apparatus	222	188
Gas separating apparatus	55	355
Pipe joint	285	10+
Sewer trap	137	247.11+
Water closets	4	300+
Separation	210	
Concentrating evaporators	159	31

	Class	Subclass
Contact and	261	2+
Deaerating	55	159+
Deaerating processes	55	36+
Distillation	203	
Electrical	204	186+
Electrical apparatus for	204	302+
Emulsion breaking	252	319+
Gas separation combined	55	421
Gas separation process combined	55	45
Ice melt and impurities	62	318
Liquid meters	73	200
Liquid-solid	4	DIG. 19
Oil dehydration	208	187+
Oil electrophoresis	204	181.8+
Oil paraffin separation	208	28+
Oil residual from paraffin	208	30+
Selective freezing	62	123+
Selective freezing process	62	67
Sprinkling, spraying, diffusing	239	
Testing	73	53+
Treatment		
Amylaceous liquids	127	69+
Coating implement with material supply	401	
Combs employing	132	219+
Drying	34	
Electrolytic foods and beverages	426	
Electrolytic water and sewage	204	149+
Fermentation	435	
Food preserving by	426	330+
Food sterilizing and pasteurizing	99	467+
Grain huller apparatus	99	600+
Grain huller process	426	482+
Lighted tobacco extinguisher	131	236
Metal heat treating combined	266	121+
Metal quenching apparatus	266	114+
Continuous strip	266	111+
Metal quenching processes	148	13+
Sound muffling by	181	220
Disparate fluid mingling	181	259+
Sterilization with except foods	422	
Textile apparatus for	68	
Textile combined	28	167+
Textile fiber decorticating	19	7+
Textile ironing	38	77.1+
Textile processes for	8	
Thread finishing	28	217+
Vaporizing	122	
Warp preparing	28	178+
Liquid Crystals		
Article or stock	428	1
Cholesteremic	552	544
Composition	252	299.1
Display device	350	330+
Light control	350	
Display of message	340	784
Hand and dial	368	84
Monogram	340	765
Time indication	368	242
Optical filter composition	252	582
Liquors	426	592
Malt	426	64
Listers	172	642
Drilling	111	83
Walking cultivator or plow	172	351+
Listing Forms	283	66.1+
Lite Pipe Sign	40	547
Litharge	423	619
Lithium (See Alkali Metal)	423	179.5
Lithocholic Acid	552	552
Lithography	101	130+
Lithographic emulsion	430	949*
Lithopone	106	421+
Drying oil containing	106	255
Lithotrites	606	127
Litter	5	81R+
Litter bag	D34	1+
Portable	5	82R+
Wheeled	296	20
Livestock		
Care	119	
Design	D30	
Cars	119	7
Living Product	800	2+
Lixiviating (See Leaching)		
Load		
Braced on freight carrier	410	121+
Bridging vehicle	414	460+
Cell	177	
Hauling or hoisting	254	266
Lashed on freight carrier	410	96+
Levelers	267	64.16+
Starters		
Animal draft appliances combined	278	2
Wheeled vehicle attachments	280	151
Loaders & Loading (See Gun; Magazine)		
Aircraft	244	127+
Ammunition	86	23+
Antenna	343	749+
Cartridge belts	86	48
Conveyor chutes	193	3
Dump truck	298	
End gate loading chute combined	296	61
Excavator	37	4+
Fireworks	86	20.1+
Glider pickups	244	2+
Harvester combined with raker	56	344+
Loaded		
Conductors for signaling	178	45+
Line	178	45
Feeding to amplifier	178	45
Phantom circuit having	178	45
With attenuator	178	45
Marine	414	137.1+
Nuclear reactors	376	260
Nuclear reactors	376	268
Railway car bodies dumping	105	239+
Railway mail delivery	258	
Self loading vehicles	414	467+
Sheaf	56	120
Shoe nailer	221	
Textile fluid treatment	68	210
Trains in motion	104	18+
Vertically swinging shovels	414	680+
Weighing scales	177	145+
Loafer, Footwear	D 2	269
Lobster Claw Clamp	17	1R
Localizer	342	413
Locating (See Detection; Testing)		
Foreign bodies	128	737+
Location determining devices		
Acoustic	181	125
Radar	342	126+
Railway track defect	73	146+
Train protecting combined	246	120+
Sound		
Mechanically	181	125
Submarine	367	87+
Lock (See Definition Notes, Associated Devices; Fastener; Detent; Latch; Seal; Securing Means)	70	
Air		
Caissons	405	8
Diving bell combined	405	192
Dryers	34	92
Dryers vacuum	34	242
Furnace charging	414	162+
Material moved between unlike pressure areas	414	217+
Pneumatic conveyor discharging	406	169
Submarine escape	114	334+
Article dispenser	221	154
Automobile	70	237+
Bicycle	70	233+
Book binder sheet retainers	402	2
Box and chest	70	63
Cabinet with		
Selector operator	312	215
Canal	405	85+
Cane, umbrella, apparel	70	59
Closure	70	77+
Barrel bung	217	106+
Bottles and jars	215	207
Burglar alarm combined	116	8+
Camera plate holders	354	281
Car dump	105	308.1+
Check controlled	194	
Drawers	312	333
Elevator door	187	61
Fasteners	292	
Freight car automatic lock	105	395
Railway car platform trap door	105	435
Safe alarm combined	109	44
Safe bolt work	109	59R+
Safe door poison gas releaser combined	109	30
Special receptacle	206	1.5
Till drawer alarm combined	116	76
Vault covers	404	25+
Combination	70	286+
Design	D 8	331+
Dispensers with	222	153
Dog for bolt	70	467+
Door	70	91+
Door latch bolts, biased	70	144
Electric lamp	439	133+
Expansible chamber device with	92	15+
Fluid	92	8+
Firearm safety mechanism	42	70.1+
Fluid handling systems or devices with	137	383+
Gang bar type for cabinet	312	216+
Sectional unit type cabinet	312	107.5
Hasp	70	2+
Key removal preventing	70	389
Keyholders	70	456R+
Lap robe in car body	296	77
Machine elements valves etc	70	175+
Mechanical gun	124	40
Mounting devices	70	466
Nail	411	439+
Railway spike	238	375
Nut and bolt		
Bolt pivoted end	411	340+
Bolt threadless key type	411	340+
Bolt to nut	411	190+
Railway splice bar	238	262
Openers electric or magnetic	70	277+
Operating mechanism	70	266+
Pad	70	20+
Permutation	70	315+
Pipe joint	285	80
Portable	70	14+
Puzzle	70	289+
Rack combined	211	4+
Railway switches and signals	246	
Register	235	130R
Key locks	235	27
Safety chains	292	262+
Seal tamper detecting	70	440
Latch	292	307R+
Padlock	70	50
Shear line	70	496
Side lock	411	191
Sidebar	70	496
Slotted bolt, railway splice bar type	238	252
Special application	70	57+
Stitch making	112	
Switch		
Lock combined	200	61.64+
Operated	200	43.1+
Systems	70	262+
Telephone	379	445
Operated over telephone line	379	103
Time	70	267+
Trunk	70	69+
Typewriter	400	663+
Valve	70	175+
Automobile fuel	70	242+
Gravity feed lubricators	184	86
Lock operated	137	384.2+
Ward guard	70	420
Weigher	177	124
Wheel	70	225
Brake	188	69
Caster	16	35R+
Yale	70	357+
Lockets	63	18+
Design	D11	80
Lockout		
Key locks	70	337
Telephone	379	194+
Intercommunicating	379	168+
Polystation	379	184+
Locomotive		
Boilers	122	
Chain grate progressive feed	110	198+
Design	D12	38
Feeding air		
Firebox	110	198+
Feeding air and steam		
Firebox	110	199+
Heater	110	201
Undergrate	110	202
Firebox	110	198+
Fuel feeding stoker	110	105.5
Headlight and signal illuminators	362	61+
Journal	384	187
Light supports automatic	362	66+
Railway	105	26.5+
Safety bridges	105	459
Truck frames	105	172+

	Class	Subclass
Shed fixtures	104	51+
Smoke and gas return	110	198+
Stoker type comminutor	241	276
Tender scoops	417	232
Toy	446	467
Illuminated	446	438+
Smoking	446	25
Sounding	446	410
Valves, gears	91	218+
Ventilation of cab	98	3
Log		
Borehole testing	73	152
Building	52	233
Toy	446	106
Gas burner	431	125
Gas or electric, simulative	D23	409
Loading vehicle	414	460
Ship		
Course recorder	346	8
Navigation	73	181+
Splitter	144	193R+
Wood sawing		
Band saw	83	788+
Log deck block	83	708+
Log transfer	83	707+
Log turner	83	708+
Log turner and deck block	83	708+
Woodworking		
Stay log slicer	144	177+
Stay log veneer lathe	144	214
Logging		
Cable type traversing hoists	212	76+
Pole or tree handlers	414	23
Vehicle	414	460
Wood sawing	83	703+
Logic Gate Active Element Oscillator	331	DIG. 3
Logotype	400	95+
Looms	139	
Circular	139	457+
Lace	87	27
Special type	139	11
Stationary weft supply	139	429
Traveling wave shed	139	436
Loop		
Amusement railway with vertical	104	55
Animal catching lasso	119	153
Antenna	343	866+
High frequency type	343	741+
Belt		
Machine for sewing	112	121.27
Cartridge belt	224	223+
Clothes line endless	211	119.2+
Fastening device		
Billet loops	24	182
Button engaging	24	660+
Button engaging garter type	24	464+
Engaging with camming lever	24	69R+
Hat combined with comb or hairpin	132	61
Lace guides	24	714.6+
Pipe couplings	285	71
Tag attaching pins	40	668
Tie to collar button	24	58
Garment	2	271
Garment supporter	2	321+
Crossed loop	2	327+
Plural loops	2	331
Handle	16	125+
Insulated	16	119
Harness		
Bridle crown	54	13
Checkrein hook	54	17
Design	D30	140+
Strap connector	54	87
Lock		
Element on trunk	70	36
Rail holddown	238	43
Sewing machine	112	32
Railroad splice bar	238	256
Textile pile	26	2R+
Cutting	26	7+
Trap	43	86
Wire fabric interlocking	245	5
Loopers Fastener		
Carpet rag	28	148
Drier combined	34	157
Knitting	66	
Packet	227	77
Sewing	112	
Web or strand feeding	226	104
Wireworking	140	102+
Loose Leaf		
Binder device releasably engaging aperture or notch of sheet	402	
Opening reinforcement	402	79
Lorgnettes	351	56
Design	D16	105
Supports	351	56
Lorol (See Lauryl Alcohol)	568	840
Lotions	424	
Loud Speaker (See Telephone)	381	150+
Baffle	181	155
Design	D14	221+
Public address system	381	82+
Loudness Meter	73	646
Lounges	52	473
Louvers		
Movable	49	74+
Shutters		
Unit design	D25	152+
Ventilating	98	121.1
Low mu Triode	313	293+
Lowering		
Beds	5	65
Coffins	27	32+
Cable	254	266+
Hoist hook	212	89
Life craft	114	365+
Load with automatic return	414	594
Plow	172	464
Support releasable	248	320+
Vehicle tops	296	112+
Lozenges		
Design	D 1	127
Medicinal	D28	1+
Presses	99	353+
Lubrication and Lubricators (See Oiler and Oiling)	184	
Air line lubricators	261	DIG. 35
Ammunition	102	511
Axle jacks	254	32
Compositions (See lubricants)		
Earth boring drilling fluid	175	65+
Engines, internal combustion	123	196R
Poppet valve operating mechanism	123	188A+
Fishing reel	242	319
Fitting	285	169+
Valved	251	142+
Fluid handling	137	246+
Gun	D 8	14.1
Lubricants (See oil)	252	9+
Mineral oil only containing	208	18+
Purifying used	208	179
Testing	73	64
Frictional characteristics	73	10
Gas content	73	19.11
Lubricating apparatus	184	
Gun	D 8	14.1
Oil dispensers	222	
Machine parts		
Band saw pulley	83	169
Bearings	384	
Belt and sprocket	474	91
Brakes	188	264B
Casters	16	36
Clutches	192	1138
Connecting rods	74	587
Crank and wrist pins	74	605
Earth boring tool combined	175	227
Endless flexible track pivot	305	14
Gears	74	467+
Glass making apparatus	65	170
Hinges	16	274
Metal founding apparatus	164	149
Pistons	92	153+
Piston rings	277	
Planes wood	30	483
Planetary gearing	475	159+
Sewing machines	112	256
Sewing machines leather	112	43
Shaft coupling	464	7+
Spinning rings and travelers	57	120
Spinning whirls	57	133
Springs leaf	81	3.7
Springs leaf	267	50
Springs leaf covered	267	37.4+
Sprocket chain pivot	474	91
Textile drawing saddles	19	284
Valve actuator	251	355
Valve interface	137	246+
Vehicle wheels spring type	152	2+
Material working		
Ammunition making	86	19
Cutters	407	11
Die expressing	425	197+
Die expressing	425	200+
Dies wire drawing	72	41+
Screw threading	408	
Pipe joint	285	94
Refrigeration apparatus	62	468+
Automatic	62	192+
Process	62	84
Reservoir for packing assembly	277	17+
Separator, imperforate bowl centrifugal	494	15
Textile compositions	252	8.6+
Textile processes	28	169+
Braid	87	1
Coating or impregnating	427	
Strands	57	295+
Strands covered	57	7
Lucite T M (See Synthetic Resin or Natural Rubber)		
Luggage (See Baggage)	190	
Design	D 3	30.1+
Latch	D 8	331+
Travel bag	206	278+
Lumber		
Building component	52	
Compound	52	782+
Dencilling	254	18
Impregnated	428	541
Laminated	428	18
Luminal	544	305
Luminaries	362	296+
Luminous (See Fluorescent; Illuminated; Light)	362	
Cathode ray screens	313	461+
Photo process of making	430	23+
Compositions fluorescent or phosphorescent	252	301.16
Inorganic	252	301.6 P+
Organic	252	301.16
Compositions radioactive	252	625+
Fluorescent and phosphorescent	250	458.1
Heads for figure toys	446	391+
House number	250	462.1
Sign	40	541+
Illuminating devices with material	362	84
Lamps	313	
Push button	250	465.1
Toys	446	485
Chemiluminescent	446	219
Lunch		
Heaters	126	261+
Kit or box	206	541+
Design	D 7	626+
With heater	126	266
Wagons	296	22
Luneberg Lens Type	343	911L
Lungs		
Heat-lung digest	128	DIG. 3
Lungmotor respirators	128	28+
Lures		
Fishing	43	4+
Artificial	43	42+
Design	D22	126+
Food bait	426	1
Lustering		
Fabrics	26	27+
Lutidine	546	348
Lymphokines	530	351
Lysergic Acid	546	69
Lysergic Acid Diethylamide Lsd	546	69
Lysine	562	562
Lythrine	546	43
Macaroni	426	557
Apparatus		
Die expressing	425	288
Die expressing	425	289+
Die expressing	425	331
Die expressing	425	381.2
Design	D 1	126+
Drying digest	34	
Machete	30	
Design	D22	118
Machine Elements	74	
Automatic operation or control	74	2+
Bearings	384	
Design	D15	143
Belt & pulley drive system	474	
Brakes	188	

	Class	Subclass
Fluid pressure brake & analogous systems	303	
Clutches & power-stop control	192	
Control lever & linkage systems	74	469*
Cylinders and pistons	92	
Design, general	D15	
Engine starters	74	6*
Gearing	74	640*
Planetary	475	
Gyroscopes	74	5R*
Intermittent grip type movements	74	111*
Lighting	362	89*
Mechanical movements	74	20*
Power take-off	74	11*
Pushing & pulling implements, force multipliers	254	1*
Rotary member or shaft indexing	74	813R*
Shaft operators	74	108*
Shafting and flexible shaft couplings	464	
Lost motion couplings	464	160*
Rotary shafting	464	179*
Tool driving or impacting	173	
Work holders	269	
Machine Gun	89	9*
Explosive propellant type	89	9*
Charger	89	1.4
Self loading explosion operated	89	125*
Mechanical	124	
Centrifugal	124	4*
Machine Supports	248	637*
Machinery, Toy	446	
Mackinaws	2	93*
Macrame	289	16.5
Magazine (See Handle Receptacle Type)		
Ammunition and explosive		
Body or belt attached	224	223*
Bandoleer	224	203
Covered flap	224	239
Chargers	42	87*
Gun combined	42	2*
Loading	86	47
Mechanical gun or projector	124	45*
Ordnance	89	33.1*
Railway torpedo	246	212*
Revolver combined	42	60
Structure	42	49.1*
Article dispenser (See class defs)	221	
Boiler		
Liquid heater or vaporizer	122	
Camera	354	174*
Coin return, empty dispensing	194	200
Dry closets	4	464*
Electrode	314	5
Fire pots combined with magazine section	D23	386*
Holder as furniture	D 6	396*
Implements and machines with		
Assembling apparatus	29	809*
Check controlled machine	194	
Detonating cane	446	403
Label pasting machine	156	
Digest, apparatus	156	DIG. 29
Nail drivers	227	
Pencil	401	89*
Pencil selectively replenishing feed guide	401	56
Pencil sequentially replenishing feed guide	401	57
Razor	30	40
Riveter	227	
Riveter eyelet	227	51*
Sound recording tapes	D14	120*
Stapling	227	
Type cases	276	44*
Type casting machine	199	1*
Type setter	276	15
Type setter and distributor	276	3*
Typewriter paper feed	400	624*
Wire and slat	140	27
Wire and slat portable	140	38
Wireworking	140	53*
Labeling	156	DIG. 29
Lock magazine cylinder & pin tumblers	70	DIG. 5
Motion picture film	352	78R
Paper cover removal	83	933*
Photographic	354	174*
Slide projector, design	D16	236
Razor blade holder	206	352*
With means of feeding blades into razor	30	40
Stove and furnace		
Furnace structure	110	293*
Stove	126	
Toaster	99	387
With article removing facilities	312	35
Magenta (See Fuchsine)		
Magic		
Amusement devices	272	8R*
Clock	368	81
Slides	40	152*
Magnesia	423	635
Cement	106	801
Magnesium		
Alloys	420	402
Aluminum	420	542
Aluminum copper	420	533
Electrolytic synthesis	204	70
Compound inorganic	423	
Carbonates	423	430*
Inorganic	423	
Oxide and hydroxide	423	635
Electrothermic processes	75	10.1*
Volatilization of magnesium	75	10.33
Heat treatment	148	161
Metal working with	29	DIG. 27
Oxychloride cement	106	685*
Peroxide	423	583
Plate	428	649*
Preparation		
Electrolytic	204	70
Pyrometallurgy	75	594*
Strip type solid fuel	431	99
Magnet and Magnetic (See Type of Magnet)	D13	183
Actuated motor for railway switches	246	227*
Actuated motor for railway switches	246	231*
Actuated switch	335	2*
Alloys	420	
Analog storage systems	365	48
Antimagnetic devices for watches and clocks	368	293
Arc or ray deflecting or focusing		
Arc lamp	313	153*
Arc lamp with discharge deflecting	314	20
Cathode ray tube	313	421*
Cathode ray tube circuits with plural	315	14*
Electron microscope	250	311
Electronic tube controlled by	315	267
Electronic tube controlled by	315	344*
X ray tube	378	137
Board games	273	239
Bracket	248	206.5
Holding article by	248	309.4
Bubbles, magnetic	365	1*
Chargers	335	284
Chuck	279	1R
Holding magnet	335	285*
Circuit and switch control		
Arc blowout	315	344
Arc blowout in switch	200	147R
Electromagnet circuits	361	139*
Electromagnetic switch	335	2*
Electromagnetic switching	361	139*
Operator for brake	188	161*
Railway cab signal	246	178*
Railway cab signal	246	193*
Railway cab signal	246	197
Railway cab signal	246	202
Railway point thrower	246	265
Railway switch actuation	246	225*
Railway train trip	246	360
Transmission to vehicles	191	16
Transmission to vehicles	191	17*
Circuit controller for railway section	191	17*
Arc lamp operator	314	104
Closures	220	230
Clutches	310	92*
Compasses	33	355R*
Compositions	252	62.51
Consumable electrode feed or control	314	
Control for frictional gearing	74	210
Conveyors and feeders		
Holding item by magnetic attraction	209	904*
Magnetic feeder	209	907*
Cooling by	62	3.1
Coupling	464	29
Demodulator for radio receiver	329	
Digital signal processing	360	39*
Disk	360	135
Drum	360	136
Transport systems	360	81*
Dynamic magnetic info storage and retrieval	360	
Automatic control system	360	69*
General recording or reproducing	360	55*
Head	360	110*
Physical elements	360	102*
Record medium	360	131*
Signal processing	360	18*
Special purpose devices	360	1*
Earth boring tool	175	328
Electro	335	209
Lifting	335	291
Removing splinters from the eye	600	11
Electrochemistry apparatus	422	186.1*
Explosive igniters		
Fuses	102	206*
Marine mines	102	417
Feeler mechanism loom	139	274
Fender securing device	293	DIG. 6
Fishing reel brake	242	286
Flip flops	307	406
Hoist line type	294	65.5
Induction current transmission to vehicles	191	10
Instruments	33	DIG. 1
Joints and connections digest	403	DIG. 1
Key lock	70	413
Levitation railway	104	281*
Lifting handling or holding	335	285
Bracket supports	248	206.5
Conveyors	198	690.1
Enhanced by magnetic hold	198	690.1*
Detachable electric connector	439	38*
Grapples	294	88
Hand and hoist line implements	294	65.5
Light supports	362	398
Material handling	414	606
Metal founding apparatus	164	146
Railway mail delivery apparatus	258	4
Lightning arrester	361	133*
Locomotive traction regulator	105	77*
Loom shuttle actuator	139	134
Magnetic bubbles	365	1
Magnetic memory	365	
Associative memories	365	50
Dynamic information storage &	360	
Formation by shaping	264	104
Laminated type	428	900*
Magnetic bubbles	365	1*
Read-only memories	365	97*
Static information storage & retrieval	365	
With coated metal base	437	
Magnetic recording digest	29	DIG. 28
Making	29	603*
Material treatment	148	100*
In magnetic field	148	108
Metal casting with	164	498*
Continuous casting metal with	164	466*
Nonmetallic	252	62.51
Particulate material	148	105
Permanent	148	101*
Permanent in magnetic field	148	103
Permanent with age hardening	148	102
Silicon steel	148	110*
Metal working digest	29	DIG. 95
Microphone	381	177*
Mines	102	401*
Motor art digest	91	DIG. 4
Motor operated lock	70	276
Motors with armatures	335	220
Motors with armatures	310	10*
Music leaf turner	84	521
Music tone generator	84	641*
Package or receptacle	206	818*
Permanent and electromagnet structure	335	209*
Making	29	607*
Press digest	100	917*
Pulse generator	307	419
Read only memories	365	97*
Record and recording	360	1*
Coating	427	128*
Copying	360	15*
Editing	360	13*
General reproducing	360	55*
Medium	360	131*

	Class	Subclass
Monitoring	360	31
Transport systems	360	81+
Reluctance		
Adjustable dynamo structure	310	191
Generator control	322	49+
Seal	277	80
Separation (See separator)		
Auto crankcase drain plug	335	305
Diamagnetic	209	212
Gas	55	100
Gas processes	55	3
Iron particles from solids	209	213+
Liquid	210	222+
Paramagnetic	209	213+
Sorting by	209	636
Edge coding	209	609
Sound recording and reproducing		
General recording or reproducing	360	55+
Phonograph	360	86
Phonograph record	360	135
Static information storage & retrieval	365	
Associative memories	365	49+
Magnetic bubble memories	365	1+
Read-only memories	365	94+
Stock	148	300+
Composite	428	928*
Structure	335	209+
Tape for recording	360	134
Cassette	D14	121
Reel	D14	122
Teaching magnetism	434	301
Television signal recording	360	33.1+
Tester	324	205+
Coin fraud preventing	194	320+
Therapeutic magnetic vibrator	128	424
Therapeutic or probe type	600	9+
Thermonuclear reactions use in	376	121
Mirror	376	140
Thin film memories	365	171+
Tool holder-flexible		
Abrasive	51	362
Toys	446	129+
Trigger devices	307	414
Vertically swinging material handling	414	737
Winding (See making)	242	7.7+
Method	242	7.3
Wire recorders	360	89
Work holders	269	8
Magnetizing		
Circuit or apparatus for	361	143+
Magnets or electromagnets for	335	284
Magnetoelectric Generators	310	69+
Permanent magnet type	310	152+
With ignition system	123	143R+
Magnetometers	324	244
Magnetostrictive		
Electroacoustic transducers	73	570+
Microphone	381	168+
Seismograph type	367	140
Telephone receiver	381	190
Underwater type	367	168
Plural transducer array	367	156
Vibration testing	73	570
Magnets and electromagnets	335	215
Magnetron		
Amplifier	330	47+
Demodular	329	
Modulator	332	
Oscillators	331	157
Radio transmitter with	455	91+
Structure of tube	315	39
Supersonic wave generator		
Oscillator	331	154
System in tube	315	32
System miscellaneous	328	230
Tube structure	315	39.51
Ultrsonic wave generator agitator	366	108+
With pulsing system	375	
Magnifying (See Telescopes Microscopes)		
Glasses	350	245+
Design	D16	135
With mount	350	252+
Lenses	350	414+
Weighing scale	350	114+
Liquid depth gauges	73	327
Pocket	350	250
Thermometer tube	374	193
Mail		
Containers		
Bags	383	
Bottle cases	217	127
Coin cards	229	92.9
Envelopes	229	68R+
Letter box closures or chutes	232	45+
Letter boxes	232	17+
Mailbox design	D99	29+
Mailing wrappers	229	92
Tubes	229	93
Delivery railway	258	
Handling		
Aircraft	258	1.2+
Cable car	104	177
Cable car single cable	104	181
Canceler and container combined	101	71
Cancelling stamps	101	371
Chutes	193	8
Elevator	187	4
Mail onto & off vehicle	414	265
Railway	258	
Sorting	209	900*
Sorting flat-type mail	209	900*
Letter sheets	229	92.1+
With return card	229	92.8
Postal cards	229	92.8
Railway delivery	258	
Aircraft in flight	258	1.2+
Signaling feature	258	2
Stamping machines		
Posting	156	
Printing	101	95
Mains and Pipes	138	
Tapping	137	317+
Mainspring		
Appliers and removers	29	228
Fastenings	368	144
Winder, watchmakers	81	7.5
Make-ready	101	401.3
Make-up		
Box	132	286+
Brush	D 4	
Cape	D28	99
Malachite Green	552	113+
Malathion	558	180
Compositions bio affecting	514	122+
Maleic Acid	562	595
Anhydride	549	262
Carbocyclic compound	549	234+
Maleimides	548	548+
Malleableizing Cast Iron	148	138
Mallet	81	19
Amusement device	273	67R+
Design	D 8	77
Malonic Acid	562	590
Malononitrile	558	453
Malt and Malting	435	185
Beverages	426	16+
Unfermented	426	590+
Diastatic mashing	435	93+
Extracts	426	44
Milk	426	580+
Manacles	70	16+
Mandelic Acid	562	470
Mandolin	84	268
Tailpieces	84	301
Mandrel (See Core)		
Circular saw arbor	144	155
Saw sharpening	76	79
Wood saw	144	155
Dental tool	433	134+
Expanding	279	2R
Winding & reeling (See notes to)	242	72R
Glass reshaping neck forming	65	286+
Hair curler	132	226+
Metalworking		
Billet piercing	72	358
Chuck	279	2R
Coiling on travelling	72	142
Conical spring forming	72	139
Drawing metal tubes on	72	283
Extruding plastic metal by plunger and	72	253.1+
Indirectly	72	273.5
For tube rolling	72	113
Forging and welding	72	481
Nut and washer forging	10	80
Nut facing arbor	408	22
Plastic metalworking	72	476+
Soldering clamp	269	
Tube pressure welding	228	3.1
Tube rolling with	72	208+
Tube threading	408	104+
Turning work driver	82	168+
Welding drawing die	228	16
Welding tubes by drawing on	228	17.5+
Wire article forms	140	92.1+
Paper bag making	493	250+
Paper bag making	493	175+
Paper tube making	493	269+
Sheet and bar cutting	83	924
Sound record cylinder	369	260
Textile braiding apparatus	87	34
Textile spinning apparatus	57	138
Wood turning hollow	142	54
Manganese		
Copper alloys	434	
Glycerophosphate	556	24
Heat treating steel containing	148	137
Manganates	423	592
Oxide and hydroxide	423	606
Plate	428	660
Pyrometallurgy	75	624+
Alloys	420	434
Thio carbamates	556	38+
Mangle		
Machine element	74	71+
Oscillating rack	74	80
Textile ironing	38	44+
Manhole, Masonry	52	19+
Cover	404	25+
Electrical distribution	174	37+
Manicuring Devices	132	73+
Cutlery	30	26+
Manicure implements	D28	56+
Manifold Making	29	890.8
Manifolding	282	
Mark forming cooperating leaves	503	200+
Stylus	81	9.2
Typewriter	400	497+
Manikin		
Anatomical study	434	267+
Apparel display	223	66+
Doll	446	268+
Taxidermic study	434	296+
Manipulators		
Buggy whip	280	178
Clothes wringer pressure	68	256+
Control, electric	318	568.11+
Electric furnace	373	
Arc	373	85+
Induction	373	138+
Resistance	373	116
Kinesitherapy	128	61
Light globes	81	53.11+
Metal foil making	29	17.4+
Metal parts assembling	29	270+
Programmable	318	568.11
Programmed	901	
Robot	901	
Electric control	318	568.11+
Targets	273	406
Telegraphic switchboard	178	75
Thread and fabric		
Fluid treatment	8	147+
Forming warp into chains	28	175+
Heddle holder	28	205+
Sewing	112	122+
Textile weaving	139	
Type matrix	199	4+
Wheel rim	301	33+
Work heated	432	122+
Manometer	73	747+
Chemical analysis, apparatus	422	82.13
Mansard Roof	D25	25
Mantels	52	36
Design	D23	404
Mantles		
Incandescent	431	100
Compositions	252	492
Making	431	100
Making by coating	427	159
Packages	206	68
Support	431	100+
Manufacturing & Assembling		
Books, making	412	1
Brush, broom, & mop making	300	
Button making	79	
Chain, staple, & horseshoe making	59	
Coopering	147	
Electric lamp & discharge devices, manufacturing & repair	445	
Elongated-member driving apparatus	227	

	Class	Subclass
Metal founding	164	
Metal tools & implements, making	76	
Metal working	29	
Assembling apparatus	29	700+
Methods	29	400.1+
Needle & pin making	163	
Package making	53	
Paper article making	493	
Sheet material associating or folding	270	
Tobacco	131	
Wheelwright machines	157	
Measure	71	21
Forks	294	55.5+
Loaders	414	680+
Pouches	119	95
Map		
Educational	434	130+
Astronomical	434	284+
Relief	434	152
Holder for map or chart	40	904*
Illuminated route	340	286.14
Jigsaw	273	157R
Road	40	
Structure	283	34+
Terrestrial map design	D19	61
Mapping Radioactive Area	250	336.1
Scintillation type	250	
Maraschino Cherries	426	639
Marble and Marbling (See Marbleizing)		
Coating machines	118	402+
Imitating processes	264	73+
Playing marble machines	425	332+
Runways	446	168+
Working	125	
Abrading	51	
Marbleizing	427	256+
Coating processes	427	256+
Dyeing effect coloring	8	478+
Margarine	426	603+
Apparatus	99	452+
Design	D 1	
Preservation	426	330.6
Margin		
Regulator typewriter	400	342+
Marimba	84	403
Design	D17	23
Marine		
Animal butchering	17	53+
Cargo handling	414	137.1+
Drydocks	405	4+
Earth boring	175	5+
Fertilizer derived from marine animals	71	16
Harvesters	56	8+
Merry go rounds	272	32
Mines	102	406+
Paints	106	15.5+
Projectiles	102	399
Propulsion	440	
Chain propeller	440	95+
Crank paddle	440	26+
Manual power	440	21+
Oscillating propeller	440	13+
Paddle wheel	440	90+
Pedomotors	440	30+
Portable propeller	440	53+
Reciprocating propeller	440	13+
Screw propeller	440	49+
Towing	440	33+
Wave propulsion	440	9+
Wind motors	440	8
Railways extensible cable type	104	114
Searchlights	362	35
Signaling (See signal)		
Vessels and appurtenances	114	
Turrets	114	5+
Marionettes	446	363
Marker		
Animal	40	300+
Animal	606	116
Designs	D30	155
Apparel	33	2R+
Book and paper		
Bookleaf holder	281	42
Bookmark	116	234+
Indexed	283	36+
Music expression and tempo	84	164
Music voice	84	165
Water marking	162	110
Calendar	40	110
Car and train	116	30
Clapboard	33	411
Coating implement with material supply	401	
Direction indicator	33	332
Grave	52	103+
Hem	33	9R+
Land and pavement	52	103+
Planting	111	33
Plow combined	172	126+
Roller	172	539
Tennis court	273	31
Tool	404	93+
Traffic guide	404	12+
Monument	52	103
Point guide	33	574+
Stylus	346	139R+
Point, with gauge	33	666+
Recorder stylus	346	139R+
Scriber	33	18.1+
Line, ink type	33	34+
Parallel line	33	41.1+
Dotted	33	39.1+
Sewing	112	131
Stitch, machine for	112	121.25
Tag or label, X-art	493	961*
Marking		
Composition	106	19
Safe combined	109	25
Scale		
Ruler or square	33	483+
Scribers geometrical	33	18.1+
Marlinspike	57	23
Marmalade (See Jams)		
Marquetry (See Parquetry)		
Marquisette	139	419
Making	139	50+
Martingale	54	35
Mascara		
Cosmetic	D28	4+
Maser Type Amplifier	330	4+
Design	D13	101
Maser Type Oscillator	331	94.1+
Masher	241	169.2
Mashing	435	93
Beverage preparation	426	11
Kitchen hand tool	D 7	682
Mask (See Face Guards)		
Baseball	2	9
False faces	2	206
Fire fighting	D29	7+
Gas mask	425	815*
Head covering with	2	173
Photographic	430	5
Respirators	128	206.12+
Surgical or oxygen	D29	7+
Swimming	D29	8+
Masking		
Abrading	51	310+
Coating	427	259
Dyeing	8	445+
Electrolysis combined	204	15+
Etching combined	156	654+
Tape	428	343+
Making by coating	427	207.1+
Templet	132	319
To form nonuniform coating	427	259
Masonry (See Furnace)	52	
Design	D25	
Furnaces	432	247+
Pipes and tubular conduits	138	175+
Mass (See Composition)		
Mass-action phenomenon in hydrocarbon synthesis	585	954*
Metal fibers	428	605
Structurally defined	428	357+
Mass Spectrometry		
Ion source for	313	564
Electrical system for	315	111.81
Having heating means	313	550
With spectrometer	250	281+
Massage		
Kinesiatric	128	24R+
Massage brush	D 4	
Massager	D24	36
Tool brush combined	15	110
Mast (See Pole; Post; Tower)	52	
Article supporting	52	40
Crane	212	266+
Collapsible	212	183
Rotary crane mast jack	212	199+
Extensible	52	111+
Horizontally	182	62.5
Openwork	52	648+
Platform	182	222+
Ship	114	90+
Traveler sail	114	112
Transportable	52	111+
Type antenna	343	874+
Mat (See Pad)		
Airfield landing type	404	35+
Armored tire type detachable	152	171+
Casing construction	152	201
Bathtub	4	581
Bed ground	5	417+
Blasting	102	303
Carpet or floor rug type	D 6	582+
Coin pickup type	206	.8+
Door	15	215+
Scrapers	15	238+
Electric floor	200	86R
Burglar alarm	340	565
Expressing press	100	297
Floor	52	660+
Design	D 6	582+
Marine	114	229
Picture frame	40	158.1+
Placemat	D 6	613+
Railway track	238	14
Sink lining mat	D32	57
Stove	126	221
Table or counter	248	346.1
Vehicle floor mat	D12	203
Wiping or cleaning type	15	215+
Boot or shoe scraper	15	238+
Design, vehicle	D12	203
Match	44	507+
Book	206	104+
Design	D 9	304
Making	53	394+
Methods	53	395
Box holders	206	127+
Matchbox design	D 9	414+
X-art	493	915*
Cigar or cigarette combined	131	351
Cigarette package combined	206	85+
Compositions	149	
Design	D27	139+
Holder		
Ash receiver combined	131	239
Cigar cutter combined	131	251
Wall mounted	206	127
Making	144	50+
Protective cover design	D27	173
Receptacle filling with	53	236
Books	53	142+
Safes	206	96+
Design	D27	173+
Scratchers	44	643
Ash receiver	131	234
Cigar cutter	131	249
Lamp combined	431	250
With match mover	431	269
Smoking device combined	131	185
Tobacco receptacle combined	206	85+
Matching Machine Woodworking	144	90R+
Planing combined	144	36+
Material (See Fabric)		
Cloth sheet	D 5	
Material Control		
Conveyor drive	198	832+
Difference detectors	73	
Electrical	324	
Ultraviolet	250	373+
X ray	378	
Keeping in suspension		
Pneumatic conveyor	406	86+
Solid classifying and separating	209	
Stop mechanism	192	125R+
Material Dispensing Brush	D 4	114+
Mates	246	454+
Mathematics		
Forms	283	44
Teaching	434	188+
Matrix		
Brake shoe	188	255+
Dental filling	433	39
Display	340	752+
Embossing material	101	12+
Gas panel	340	752+
Energizing circuit	315	169.4
Memory	365	

	Class	Subclass
Paper pulp dip moulding	162	411+
Plastic mold	425	298+
Printers	428	908*
Printing and process of making	101	401.2+
Forming machine	101	401.5+
Selective	340	825.79+
Static mold	249	
Toe and heel stiffener	12	66
Type casting	199	
Matte		
Preparation; copper	423	48
Pyrometallurgy; copper	75	643+
Matteck		
Design	D 8	11
Hoes	172	375
Making	76	109
Root cutters and grubbers	172	
Mattress		
Air or gas filled	5	449+
Bed type	5	448+
Covers for	5	499
Design	D 6	596+
Design	D 6	596+
Earth control revetment	405	19
Fasteners floppers turners	5	411
Filling and closing	53	524
Fluid filled	5	449+
Invalid	5	431+
Life raft	441	135
Protectors	5	499
Rack	211	28
Sewing machines	112	2.1
Springs	5	478+
Waterbed	5	451
Mausoleums		
Undertaking	27	1
Vaults, masonry or concrete	52	134
Mayonnaise	426	605
Maytansinol	540	462
Maze	272	19
Meal	426	622
Measuring (See Definition Notes)	73	
Acceleration	73	488+
Acetylene generator charge	48	46+
Apparel	33	2R+
Capacity measuring	324	658+
Winding coil apparatus in	242	7.12
Winding coil method in	242	7.3
Change of orientation	73	505
Coin controlled mechanism	194	
Coin size	194	339+
Conveyor combined	198	502.1+
Direction	33	300+
Dispensing combined	222	
Distance	33	700+
Distance by electromagnetic radiation	356	4+
Earth boring combined	175	40+
Electric	324	
Amplifier condition	330	2
Amplifier with measuring means	324	326+
Capacitance	324	658+
Voltage or current	324	76R+
Filling with stationary measure	141	
Filling with travelling measure	141	135+
Footwear	33	3R+
Fuel burner charge	431	287
Galvanometer	324	76R+
Geometric	33	
Lens testers	D10	61+
Household implement	D10	46.2
Instruments for	D10	
Lens testers	356	124+
Liquefied gas handling combined	62	50.1+
Lubricator	184	83
Medical	D24	8+
Meter electric	324	76R+
Nuclear reactor condition	376	245
Control of reactor, combined	376	207
Object by X-ray energy	378	
Optical		
Optical test	356	
Pyrometer	356	43+
Phase electric	324	83R+
Pressure	73	700+
Printing combined	101	73+
Radar, general	342	
Altitude	342	120
Distance determining	342	120+
Radiant energy	250	
Operational nuclear reactor	376	245
Radio		
Receiver	455	226
Transmitter	455	95+
Range by electromagnetic radiation	356	4+
Refrigeration combined	62	125+
Signal energy in antenna	343	703
Speed	73	488+
Spoon, household	D10	46.2
Tapes, design	D10	71
Temperature	374	
Testing electric properties	324	
Testing physical properties	73	
Using ultrasonic	73	570+
Vessels	73	426+
Volume or rate of flow	73	861+
Wave meter electric	250	250
Weighing scales	177	
Meat	426	641+
Blocks	269	289R+
Resurfacing wood	144	2D
Briquetters	17	32
Butchering	17	
Choppers hand	30	
Cleaning	17	
Brushing or wiping machines	15	3.1+
Liquid contact apparatus	134	
Tenderer	17	25+
Comminutor	241	
Cutting boards	269	289R+
Cutting machine	83	
Foodstuffs design	D 1	
Hanging	17	44+
Preservation	426	321+
Canning	426	392+
Coating	426	289+
Dehydration	426	471+
Packaging	426	392+
Press	100	910*
Refrigeration	426	524+
Products, edible	D 1	
Slicers	D 7	381+
Tenderers	17	25
Pounders	17	30
Mechanical Memory Alloy	148	402
Mechanical Movements	74	
Belt & pulley drive system	474	
Mechanical Removal Assistant	29	DIG. 96
Mechanics Teaching	434	302+
Medal		
Badge	40	1.5
Jewelry	63	20
Ornamental design	D11	95+
Medical & Surgical Equipment		
Acupuncture	128	907*
Applicator	128	362+
Aspirators	604	35
Bandaging	128	82.1
Biological signal amplifier	128	902*
Blood pressure recorder	128	900*
Cabinets	312	209
Centrifuge (e. g., for blood)	494	16+
Colostomy bags	604	338+
Electric shock protection for patient	128	908*
Electrocardiograph	128	697
Electronics	323	911*
Feedback to patient of biological signal other than brain electric signal	128	905*
Fixed apparatus	D24	1.1+
Hypodermics	604	187+
Piston structure	604	218+
Injection devices	604	187+
Instrument	606	1+
Kinesiatric	128	24.1+
Magnetic	600	9+
Measuring instruments	D24	21+
Medicinal	604	19+
Multiphasic diagnostic clinic	128	906*
Noise suppression in electric signal	128	901*
Nursing	D24	34+
Orthopedic	128	68.1
Portable apparatus	D24	8+
Powder dispensers	604	58
Pressure infusion	604	131+
Radio telemetry	128	903*
Snake or insect venom extractors	604	314
Syringes (See syringe)		
Telephone telemetry	128	904*
Vacuum removal of material	604	131
From external body surface	604	313+
Venom extractors	604	314
Medicated Devices		
Animal		
Antivermin	119	156+
Overshoes	168	2
Sole pads	168	27
Coated or impregnated base	424	443+
Medicinal applicator	D24	63
Nest eggs	119	46
Papers and fabrics	424	443+
Truss pads	128	114.1
Medicated Food	424	439+
Medicated Matrix	424	484+
Medicator	604	890.1+
Capsule	604	403+
Controlled release	604	890.1+
Medicine	424	
Anesthetic	424	
Cabinets	312	209
Bathroom	D 6	559+
Capsules	424	451+
Chest	206	438+
Coated or impregnated base	424	443+
Compositions	424	
Computer controlled, monitored	364	413.2+
Controlled release means	604	890.1+
Design, pharmaceutical product	D28	1+
Dose		
Administering devices	604	187+
Containers	206	528
Dispenser with removable doser	141	22+
Pump doser	141	23+
Indicator	116	308
Package	206	828*
Structured dosage unit	424	400+
Tear-off packaging	206	532
Special package	206	828*
Sulfa drug ctg	514	155+
Medium mu Twin Triode	313	301
With two cathodes	313	6
Megaphone	181	177+
Electric	381	75
Megohmmeters	324	691+
Melamine (See Synthetic Resin or Natural Rubber)	544	200
Aldehyde resins (See synthetic resin or natural rubber)		
Melatonin, in Drug	514	415
Melodeon	84	351+
Melting		
Cleaning by	134	5
Electric furnace	373	
Glass and slag	373	27+
Fat rendering	260	412.6+
Furnaces	432	161
Heaters	126	343.5 R
Iron processes	75	571+
Purifying combined	75	507+
Metal casting combined	164	47+
Metals furnaces	266	200+
Metals furnaces, X-art	266	900*
Nonferrous metals	75	585+
Partial melting	156	DIG. 105
Pots for glass	432	262+
Product manufacturing computerized	364	477
Separating combined	422	285+
Processes	23	308R+
Snow	37	227+
Spraying combined	239	79+
Sugar starch and carbohydrates	127	22
Sulphur	423	567R
Melton Fabric	26	19+
Membrane		
Dental dam	433	136+
Diaphragm	92	196+
Acoustical	181	157+
Collapsible	137	843+
Valve	251	331
Valve biased	137	540+
Pipe organ valve	84	336
Switches	200	512+
Vibrant surgical	128	64
Memorial Tablets	40	124.5
Memory Systems		
Computer storage unit design	D14	107
Dynamic electric information storage & retrieval	369	
Dynamic magnetic information storage & retrieval	360	
Malfunction detection, correction	371	
Plural diverse storage	364	900
Static information storage and retrieval	365	

	Class	Subclass
Analog memories	365	45
Associative memories	365	49*
Magnetic bubbles	365	1*
Read only memory	365	94*
Timeplace	368	111
Menstruation Chart	40	109
Menthols	568	829
Menu (See Printed Matter)		
Holders	40	
Meperidine, in Drug	514	330
Mercaptans	568	31*
Mercaptides	568	61*
Mercaptothiazoles	548	182*
Synthetic resin or natural rubber accelerator	525	349
Mercaptovaline	562	558
Mercerizing	8	125*
Mercurials		
Carbocyclic or acyclic	556	118*
Fluoresceins	549	209
Mercurochrome T M	549	209
Mercury		
Alloys	420	526
Electrolytic synthesis	204	124*
Amalgamator	209	
Electrolytic	204	124*
Carbocyclic or acyclic compounds	556	118*
Electric discharge devices		
Arc	313	163*
Rectifier systems	363	114*
Supply circuits	315	
Tube structure	313	567*
Fluoresceins	549	209
Frozen foundry pattern	164	8
Fulminate containing explosives	149	33*
Hydrometallurgy	75	742
Inorganic compounds	23	
Medicine or poison containing		
Inorganic	424	644*
Organic	514	190*
Misc. chemical manufacture	156	DIG. 82
Pump piston	417	99
Pyrometallurgy	75	670
Combined with hydrometallurgy	75	416*
Switches	200	182*
Electromagnetic	335	47*
Periodic	200	196*
Periodic	200	200*
Timeplace	368	251
Periodic	200	205*
Periodic	200	208
Thermal	337	331
Vapor		
Electronic device starting	315	327*
Electronic device system	315	
Lamp	313	567*
Rectifier control only	315	246*
Rectifier system	363	114*
Mercuramines	546	174*
Merrifield Synthesis	530	334
Merry-go-round (See Carrousel)	272	28R*
Mesh (See Fabric)		
Mess Kit	206	541*
Messenger Cable		
Electric cable combined	174	41
Supports	248	61
Metabolism Measured by Breath Test	128	718
Metacentric		
Calculator	235	61E
Navigation	73	178R
Testing	73	65
Metal, Metallic, & Metallurgy		
Agglomerations	75	228*
Alkali and alkaline earth preparation electrolytic	204	68*
Alloys	420	
Amids	423	413
Annealing	148	13*
Apparatus, metallurgical	266	
Babbit (See alloy)		
Beneficiating ores	423	1*
Blowpipe cutting heads	266	904*
Blowpiper to transversely cut	266	902*
Bonding to non-metal	228	903*
Breakers	225	93*
By crushing	241	
Casting	164	47*
Rheo-casting	164	900*
Chill, heat treatment	148	125
Cleaning		
Brushing and scrubbing	15	
By grinding	51	16*
Liquid contact	134	
Coating	427	
Production by oxidizing	148	240*
Cutting and punching	83	
Deforming	72	
After coating	72	46*
Before coating	29	527.4
By application of heat	72	54
Cleaning, descaling, lubricating	72	39*
Cutting combined	72	324*
Differential temperature	72	342.1*
Explosive	72	706*
Gas treatment	72	38
Hydrostatic extrusion	72	711*
Magnetism	72	707*
Processes	72	362*
Reverse drawing	72	708*
Superplastic material	72	709*
Vibrating	72	710*
Desurfacing	148	9.5
Detector for library book security	340	568*
Definning electrolytically	204	146
electro-thermic processes	75	10.1*
Electrodes (See electrodes)		
Emissive cathode	313	346R
Envelope as electrode	313	246*
Etching by chemicals	156	664*
Electrolytic	204	129.1*
Fastening	24	
Book binding	281	27.3
Closure, flexible bags	383	42
Closure, paper boxes	229	125.18*
Closure, paper envelopes	229	78R
Paper clip digest	24	DIG. 8
Sheet material	24	DIG. 9
Wire	24	DIG. 1
Fences	256	21*
Filaments (See electrodes)		
Foam	428	613
Founding	164	
Fusion bonding	228	
Gas content determination	73	19.7
Getter for lamps etc	252	181.1*
Handgun holster made of	224	912*
Hardening	148	
Heating	432	
Electric	219	50*
In form of wire producing by electroforming	204	12*
Leaf		
Applying apparatus	156	540*
Using hot dies, printing	101	DIG. 31
Applying by transfer	156	230
Making	29	17.1*
Packages	206	71
Locators		
Compressional wave, echo type	367	87*
Non-echo type	367	118*
Geophysical	324	323*
Magnetic	324	200*
Security means for airport	340	568*
Melting furnaces	266	900*
Metallurgical apparatus	266	
Metallurgical processes	75	
Molten		
Bleaching & dyeing digest	8	DIG. 19
Gas injection	75	528*
Heated at nozzle	222	591*
Submersible dispensing dipper	222	629
Nuclear fuel material	376	422
Pickling	134	
Electrolytic	204	141.5*
Powder		
Coated	428	570
Compacting	419	66*
Composite containing	428	546*
Heat treatment	419	31
Loose	75	255*
Lubricant containing	75	231
Making	75	343*
Pigment	106	403*
Preparation by chemical means	75	
Fiber utilization in powder metallurgy processes	419	24
Sintered stock material	75	228*
Product manufacturing computerized	364	472
Pulverizing	241	
Pyrophoric	420	416
Radioactive alloys & metals	420	1*
Railroad car roof	52	45*
Receptacles	220	
Coffin	27	5
Coffin wood combined	27	6
Foam	220	902*
Liquified gas content	220	901*
Rupture proof	220	900*
Reels	242	77.3
Refining & recovery	75	
Refractory metal extracting	266	905*
Reinforced		
Composite panel	52	782*
Conduits	138	172*
Integral panel	52	630
Masonry	52	596*
Railway track	238	85
Vehicle bodies	296	30
Sacrificial composite	428	933*
Safety shields	266	903*
Saws and sawing machines	83	
Scrap compacting	100	35*
Scrap preheating or melting	266	901*
Shaping		
Auto radiator making	29	890.3*
Bonding concurrently	228	265
Chain link formation	59	35.1
Combined with electrical heating	219	7.5*
Sheet metal container making	413	1*
Sheet pilings	405	276*
Sponge	428	613
Stock		
Physical or chemical properties	148	400*
Structure or configuration	428	544*
Teaching metallurgy	434	298
Tool & implement making	76	
Blank or process	76	101.1*
Button making	79	3*
File cutting	76	12*
Machines	76	2*
Saw-making	76	25.1*
Sharpeners	76	81*
Treatment	148	
Apparatus	266	
Coating nonreactive	427	
Coating reactive	148	240*
Electrolytic	204	140*
Joints and connections digest	403	DIG. 2
Preserving	422	7*
Thermit type	75	959
Vacuum during casting	164	61*
Vibration during casting	164	71.1
Continuous casting	164	478
Treatment protective paint	148	22
Scoring	29	DIG. 33
Type electronic tube	313	248
Walls & panels for bank protection	109	80*
Wool	428	605
Making	29	4.51*
Working	29	
Adhesives	29	DIG. 1
Adjustable liquid level	29	DIG. 75
Aluminum	29	DIG. 2
Assembling apparatus	29	700*
Bending	72	
Digest	29	DIG. 3
Brazing	29	DIG. 4
Button making	79	3*
By projecting, squirting or dripping	29	DIG. 87
Carbonyls	423	417
Casing		
Centrifugal	29	DIG. 6
Composite	29	DIG. 8
Casting	29	DIG. 5
Combined	29	527.5*
Die	29	DIG. 1
Founding combined	164	
Heat treatment combined	148	2
Chainmaking	59	6*
Chip breakers	29	DIG. 52
Cleaner, rotating, oscillating, or reciprocating	29	DIG. 98
Cleaning	29	DIG. 7
Coating combined	29	527.2*
Conveyor		
Air blast &/or vacuum	29	DIG. 78
Chain or belt	29	DIG. 73
Flexible	29	DIG. 99
Fluid conveyor or applicator	29	DIG. 63
Gas as a	29	DIG. 81
Screw or cam conveyor	29	DIG. 1
Cup formed & bottom removed	29	DIG. 9

	Class	Subclass
Cutter		
Air current generated by	29	DIG. 82
Ambulatory with fluent conduit	29	DIG. 64
Complete immersion	29	DIG. 71
Contained supply reservoir	29	DIG. 65
Drive	29	DIG. 55
Engaging cleaner	29	DIG. 97
Fan coaxial with	29	DIG. 83
Feed	29	DIG. 57
Fluid channel in	29	DIG. 92
Fluid spreader contacts	29	DIG. 69
Hood encased	29	DIG. 86
Partial immersion	29	DIG. 74
Rotating	29	DIG. 67
Debris		
Chutes	29	DIG. 102
Control	29	DIG. 5
Receptacle, remover	29	DIG. 79
Remover, catcher, deflector	29	DIG. 94
Removers, plural type	29	DIG. 61
Separators from workpiece	29	DIG. 53
Design	D15	122+
Digest	29	DIG. 11
Dip or splash supply	29	DIG. 72
Double blank	29	DIG. 2
Drawing	72	274+
Electric heating	29	DIG. 13
Electroplating	29	DIG. 12
Electrostatic	29	DIG. 95
Elevated tank supply	29	DIG. 9
Enameling	29	DIG. 14
Etching	29	DIG. 16
Extruding	29	DIG. 47
Fan coaxial with cutter	29	DIG. 83
Filter or separator	29	DIG. 77
Flexible conveyor	29	DIG. 99
Flow line & crystal making	29	DIG. 17
Fluid applicator, rotary or oscillating	29	DIG. 7
Cutting fluid application & debris control	29	DIG. 5
Fluid channel in cutter	29	DIG. 92
Fluid control interrelated with machine tool mechanism	29	DIG. 54
Fluid control valve	29	DIG. 85
Fluid conveyor or applicator	29	DIG. 63
Fluid flow to channeled cutter	29	DIG. 66
Fluid paths, multiple	29	DIG. 87
Fluid spreader contacts cutter	29	DIG. 69
Forging	29	DIG. 18
Forging and welding	228	
Forming article on end of long stock then cutting off	29	DIG. 15
Fusion-bonding apparatus	228	
Gas entrained liquid supply	29	DIG. 89
Gear cutting, milling, planing	409	1+
Grinding	29	DIG. 19
Heat treatment combined	148	11.5 R+
Heating	29	DIG. 21
Combined	219	149+
Local heating	29	DIG. 24
Hollow spindle contains	29	DIG. 68
Hood		
Actuated by tool or work approach	29	DIG. 59
Encased cutter	29	DIG. 86
Progressive displacement of	29	DIG. 6
Shield or hood movement	29	DIG. 56
Indium	29	DIG. 22
Knurling	29	DIG. 23
Machining	29	DIG. 26
Magnesium	29	DIG. 27
Magnetic	29	DIG. 95
Magnetic recording digest	29	DIG. 28
Mechanical manufacture	29	400.1
Mechanical removal assistant	29	DIG. 96
Molding combined	29	527.1
Molding with other steps	29	DIG. 29
Movable liquid-carrying trough	29	DIG. 76
Ornamenting	29	DIG. 3
Pans, beds & tables	29	DIG. 101
Particular materials	29	DIG. 25
Plastic state	72	
Plastically shaping	72	
Plural discharge loci	29	DIG. 93
Plural discharge openings	29	DIG. 91
Power stop control for movable element	29	DIG. 51
Pressing powder	29	DIG. 31
Reels	242	78+
Rolling	72	199+
Rubbing transfer of solid coating to rotating element	29	DIG. 62
Digest	29	DIG. 32
Scaling	29	DIG. 34
Sheet and foil making	29	17.1+
Sheet metal container making	413	
Shot blasting	29	DIG. 36
Shrink fitting	29	DIG. 35
Soldering	219	85.1
Spot welding	29	DIG. 38
Spraying	29	DIG. 39
Stamping	29	DIG. 37
Staple making	59	72
Stock & blanks	428	544+
Strips of repeated articles cut up later	29	DIG. 4
Taper tube making	29	DIG. 41
Tension applied during working	29	DIG. 42
Titanium	29	DIG. 45
Tools and implements making	76	
Assembly, magnetic or indicia tools	29	DIG. 105
Tool or work attached	29	DIG. 104
Upsetting & flanging tube end	29	DIG. 43
Vacuum	29	DIG. 44
Vacuum exhaust type	29	DIG. 84
Vibration	29	DIG. 46
Welding	29	DIG. 48
Wire	140	
Work hardening	29	DIG. 49
Workpiece & debris separators	29	DIG. 53
Metaldehyde	549	353
Metalizing	427	
Electrolytic	204	14.1+
Metallic		
Metallurgy (See Metal & Metallurgy)	75	
Metamucitin	540	331
Metasilic Acid	562	58
Metaphosphates Inorganic	423	
Metaphosphoric Acid	423	307
Metasilicates	423	
Metatarsal Pads	128	69
Meteorology	73	170R+
Teaching	434	217
Meter and Metering	73	
Design	D10	46+
Dispenser combined	222	23+
Dispenser cutoff	222	14+
Automatic	222	59+
Dispenser volume or rate of flow	222	71+
Electric	324	76R
Amplifier combined with meter	324	123R+
Amplifier condition measuring system	330	2
Amplitude modulation	332	150
Circuit protection	324	110
Coin controlled	194	
Electrolytic	324	94
Frequency	324	78R+
Frequency modulation	332	118
Galvanometer	324	76R+
Leakage	324	555+
Phase	324	83R+
Polyphase current	324	107+
Radiant energy	250	
Radio frequency	455	155
Recording	346	
Resistance	324	691+
Slip	324	
Switchboard	361	364+
Time interval of energization	324	139
Time lapse	368	114+
Triphase current	324	107+
Volt	324	76R+
Wave	250	250
Exposure photographic	356	213+
Flowmeters	73	861+
Gas separator combined	55	270
Hardness for roentgen tubes	324	413+
Illumination	356	213+
Noise exposure	73	572+
Noise exposure alarms	340	540
Parking		
Alarm electric	340	932.2
Coin controlled	194	
Time controlled	368	90+
Photo	356	443+
Photography		
Measuring shutter speed	73	5
Volume or rate of flow	73	861+
Dual pipe connections	285	30
Methacrylate Resins (See Synthetic Resin or Natural Rubber)		
Azeotropic distillation with	203	66
Methadone, in Drug	514	648
Methanol (See Alcohol)		
Distillation destructive	201	
Fischer-tropsch synthesis	518	700
Low freezing point compositions	252	73+
Purification or recovery	568	913+
Dehydration	203	18
Methapyrilene, in Drug	514	336
Methicillin	540	339
Methionine	562	559
Methomyl	514	477
Methyl		
Methacrylate	560	205
Synthetic resins (See synthetic resin or natural rubber)		
Orange	534	845
Salicylate	560	71
Violet	552	114
Methylenecitric Acid	549	296
Metol T M	564	443
Metronome	84	484
Metronome design	D10	43
Mica	106	DIG. 3
Chemical treatment of	423	
Comminution	241	4
Exfoliation of	252	378R
Flake	428	363
Laminate	428	454+
Laminate non-structural	428	446+
Layer	428	363
Mass, structurally defined	428	363
Pigment containing	106	415+
Splitting	125	24
Micellar Solution	252	302+
Michlers Ketone	564	328
Microbiology (See Molecular Biology & Microbiology)	435	
Microcapsules	428	402.2+
Gaseous core	521	76
Liquid core	428	402.2
Solid core	428	402.24
Microcard		
Photocopying	355	54
Selective data retrieval	353	27R
Microemulsions (See Microcapsule)		
Lubricants	252	49.5
Microfiber	428	903*
Microfiche		
Camera for producing	355	54
Card rack with pockets	40	124.2
Cartridge	353	27A
Slide transfer mechanism	353	103+
Film mounts	40	159.2
Photocopying	355	78+
Plural image recording on single plate	354	120
Projectors, picture carrier	353	120
Readers-printer design	D16	223
Reading machines	350	241
Transparent film viewers	40	361
Microfilm (See Microcard, Microfiche)		
Frame mats & mounts	40	159
Image transferred from document	355	64
Means to attach film to spool	242	74+
Photocopying	355	271+
Viewers	40	361+
Audio-visual equipment	D16	225+
Projector	353	74+
Reader-printer design	D16	223
Selective data retrieval	353	26R
With detailed optics	350	239+
With image projection on screen	353	
Micrometer	33	813+
Design	D10	73
Magnifiers	350	114+
Microorganism	435	820+
Microphone	D14	225+
Dynamic	381	177+
Granular	381	180+
Mechanical or acoustical	181	
Muffler at mouthpiece	181	242
Musical instrument attached	84	723+
Ribbon	381	176+
Moving coil type	381	177
Telephone	381	168+
Transformer	336	
Microphotography	355	18+
With fiber optics	355	1

	Class	Subclass
Microphotometer	356	213+
Microporous (See Pore Forming)		
Microprocessor	364	200
Camera photographic operation control	354	412
Microprojector	353	39
Microscope	350	507+
Container for slides	206	456
Design	D16	131
Electron	250	311
Generally	350	507+
Illuminator	350	253
Interference	350	509+
Objectives	350	414+
Phase contrast	350	509+
Slide	350	529+
Stage	350	529
Box	206	456
Microtome	83	915.5*
Microwave		
Coating by direct application of microwave	427	45.1
Concentrating evaporators electric field digest	159	DIG. 26
Containers, special for cooking	D 7	354+
Cooking food	426	241
Drying & gas or vapor contact	34	4
Food specially packaged or wrapped	426	107
Induction heating digest	99	DIG. 14
Material subjected to electrical energy	34	1
Oven	219	10.55 R
Design	D 7	351
Thermometer	374	149
Piercing probe	374	155
Radio &microwave absorption wavemeters	250	250
Thermal analysis	374	21
Thermometer	374	122
Used in reaction to prepare inorganic or organic material	204	157.15+
Used in reaction to prepare or treat synthetic resin or natural rubber	522	1+
Mildew Proofing	428	907*
Process	424	405+
Proofed stock	428	907*
Mileage Transportation Indicia	283	24
Military		
Computer controlled, monitored	364	423
Insignia	D11	95+
Milk		
Artificial	426	580+
Bottle		
Box for door or window	232	42+
Brushes	15	164+
Caps	215	200+
Easy removal disk caps	215	298
Bottles baby feeding	215	11.1+
Breast pumps	604	36+
Cans	220	
Design	D 9	367+
With light	362	154
Cartons ,paper	206	621.1+
Holder or rack for	D 7	616+
Liquid proofed	229	3.1
Chocolate	426	584+
Condensing	159	
Dairy food treatment	99	452+
Evaporating	159	
Filter	210	348+
Milking devices	119	14.1+
Claw	119	14.54+
Releasers	119	14.5+
Stools	297	175+
With cooling	119	14.9
Milking machines	119	14.1+
Methods of milking	119	14.2+
Releasers	119	14.5+
Modification	426	317+
Preservation	426	330.2
Canning	426	392+
Dehydration	426	471+
Sterilization & pasturization	426	521+
Protein foods from	426	656+
Receptacles deposit and collection	232	41R+
Receptacles for dairy use	220	
Combined with stool	297	175+
Leg or lap supported	220	17.1+
With strainer	210	464+
Shaped bottle	D 9	367+
Testing	422	74
Processes	436	20
Sediment	73	61R
Miller Hook	213	105+
Millinery		
Hat linings	2	63
Hats caps etc	2	171+
Head protectors	2	2.5+
Manufacturing apparatus	223	7+
Milling (See Comminuting)		
Chemical etching	156	625+
Cutting machine	409	64+
Chemical	156	345
Cutters for	407	30+
Electro chemical		
Nut	10	82
Saw shaping	76	44
Gear cutting	409	1+
Test by	73	7+
Mills		
Coffee mill or grinder	D 7	372+
Condiment grinder, household	D 7	679
Gristmill alarms	116	71
Metal rolling	72	199+
Solid material comminutors	241	
Vegetable and meat comminutors	241	
Millstone		
Dress	241	296
Dressing	125	27+
Gauges	33	196
Picks	125	42
Mimeograph		
Plates or surfaces	101	463.1
Processes	101	463.1
Rotary	101	116+
Mincing		
Meat	241	
Hand cutters	30	
Mine & Mining		
Car		
Axles	295	41+
Bodies	105	364
Brakes four wheel spreading	188	55
Lubrication	184	2
Trucks	105	161
Door electric signal railway	246	125+
Elevator crosshead	187	96
Explosive	102	401+
Aerial	102	405
Airplane sustained	244	14
Laying submarines	114	316+
Laying vessels	114	18
Ship protection	114	240R+
Sweeping implements	114	221R
Towed sweeping devices	114	242+
Machine trucks for	105	161
Miners lamp	D26	37+
Combined with tool	7	104+
Safety	362	164+
Testing of	73	164
Picks	125	43
Carrier	224	
Hand	294	
Prop	405	288+
Ventilation	98	50
Mineral		
Acids	423	
Boron compound	423	277+
Carbon	423	414+
Halogen	423	462+
Nitrogen	423	385+
Phosphorus compound	423	304+
Silicon	423	324+
Sulfur	423	511+
Detectors		
Electric prospecting	324	323+
Electric testing	324	
Glass		
Ceramic compositions	501	11+
Coating	427	216+
Laminating	156	62.2+
Layer or laminated	428	426
Making apparatus	425	6+
Making from slag	65	1+
Oil emulsion		
Biocidal	514	938*
Oils	208	
Apparatus	196	
Compositions lubricating and miscellaneous	252	9+
Electrical separation or purification	204	188+
Electrolytic treatment	204	136
Electrophoretic or electro osmotic treatment	204	181.8+
Electrostatic field or electrical discharge treatment	204	168+
Extracting	208	311+
Fischer-tropsch crude	208	950*
Process & products	208	
Recovering or disintegrating in situ	299	
Substances chemical purification	23	
Fermentative, preexisting cd	435	262+
Fermentative, synthesizing cd	435	168
Mineral Block	D 1	100
Mineral Wool Compositions	501	36
Miniature Electronic Tubes	313	
Mining (See Mine & Mining)	299	
Minnow		
Buckets	43	56+
Design	D22	136
Nets	43	11+
Design	D22	135
Mirrors and Reflectors	350	600+
Beds having	5	280
Bracket support for	248	475.1+
Cabinet combined with	312	224+
Cavity inspectina hand	350	640
Changing effect in mirror	40	900*
Comparing or demonstrating	434	371
Correct answer revealed	434	331
Dental	433	3+
Design	D24	13
Design	D 6	300+
Diagnostic	128	3+
Fireplace heat reflectors	126	552
Fluorescent or phosphorescent devices with reflector	250	467.1
Hand-held	D28	64.1
Hats having	2	185R+
Hook or support for	D 8	354+
Support hardware	D 8	373+
Illuminating devices and electric lamps having	362	296
Lamp structure combined	313	113+
Lights combined with mirrors	362	135
Furniture combined	362	128
Inspection facilitation	362	138
Liquid level gage glass having	73	327
Magnetic, use in thermo nuclear reactions	376	140
Coating apparatus	118	
Coating methods	427	162
Electroforming	204	7
Electroplating	204	19
Molding or blowing glass	65	
Making	350	320
Maze or labyrinth illusion	272	19
Observation	350	600+
Examining inner surface of hollow body	350	640
Examining inner walls of cars	350	640
Firearm sighting	33	233+
Reflex camera	354	152+
One way transparent	350	259
Railway track reflectors	246	474
Rear view	D12	187
Remote control	74	502.1
Signs having	362	253
Stage having	272	13
Support	248	466+
Frames or holders combined	52	
Surface configuration	428	409
Electroformed	204	7
Electroplated	204	19
Metal	428	687+
Surgeons specula	128	3+
Surgical	128	21+
Light combined	362	138
Oral	128	10+
Telescope attachments	350	574+
Television scanners	358	206+
Toilet kits having	132	316+
Brush type	132	102+
Compact	132	301+
Powder box and applicator	132	301+
Triple	350	102+
Typewriters having	400	716+
X ray reflectors	378	70
Missiles	D12	16.1
Aerial projectile amusement devices	273	317+
Bow	124	23.1+
Control	244	3.1+

	Class	Subclass
Explosive gun ejected	102	501*
Guided	244	3.1*
Mortar	102	372*
Projectile making	29	1.2*
Projectiles, mechanical	124	
Rocket projected	102	374*
Simulated projectile game	273	313*
Slingshot	124	17*
Stabilized	244	3.1*
Mist Treating		
Coating	427	428*
Textile machines	68	5R*
Miter		
Box	83	746
Wood sawing apparatus	83	761*
Mitering Devices		
Metal sawing	269	
Printers leads cutting	83	559
Wood sawing		
Boxes	83	746*
Machines	83	471.2*
Woodworking		
Clamps	269	
Cutters	144	216*
Mitersaw/cs	548	422
Mitt		
Apparel	2	158*
Bath mitt or cloth	D28	63
Fingerless glove	D 2	610
Kitchen hot pad	D29	20
Mitten	D 2	622*
Apparel, knitted hand covers	66	174*
Fabric wipers and polishers	15	227
Knitting machine circular	66	45
Knitting machine straight	66	65
Mixer (See Agitating; Air, Mixer; Kneader)		
Agitating	366	69*
Animal food mixer	366	603*
Auxiliary air inlet for combustible gas mixture	48	189.3
Board for dentists	433	49
Bread manufacturing implement	416	70R
Bread manufacturing machine	366	69*
Carbohydrate dryer mixing tank	127	14
Carbohydrate granulation and mixing	127	21
Combustible mixture supply		
Engine charge forming	123	434*
For starting	123	180R
Gas and liquid	261	
Gas generator	48	180.1*
Acetylene combined	48	3R
Oil retort combined	48	104
Liquid or gaseous fuel burner	431	
Concrete	D15	19
Truck mounted	D12	14
Dental amalgam mixer	366	602*
Design	D 7	376*
Dough machines	366	69*
Electronic tube	313	300
Electronic tube type	328	158*
First detector type, heterodine	455	313*
Faucet aerator	239	428.5
Fluid or vapor		
Agitating device	366	101*
Aspiration	137	888
Beverage mixing nozzles	239	549
Carbohydrate granulation and mixing tank	127	14
Chemical feeders, water purification	210	198.1*
Dispenser with plural sources	222	129
Drying apparatus	34	
Faucets gas charged liquid	137	896*
Fire extinguisher chemical tank		
Automatic receptacles	169	27*
Gas pressure type	169	71*
Portable	169	78*
Fire extinguisher fluid system	169	14*
Fluid distributer	137	597*
Inhaler	128	203.12*
Inhaler vaporizer	128	203.26*
Oronasal	128	203.29*
Plural diverse fluids	137	896*
Sprayers dissolvers and mixers	239	310*
Temperature control mixing valves	236	12.1*
Valve multiway unit	128	203.29
Sequential	137	625.12*
Valves plural	137	602*
Sequential	137	628*
For radio signals	455	313*
Glass manufacture	65	178*
Heptode	313	300
Household mixer-grinders	D 7	376*
In line between carburator and internal combustions engine	48	189.4*
Mixing slab		
Dental	269	302.1
Pill	269	302.1
Mortar	366	10*
Process	366	3*
Tractor mounted mixing chamber	366	606*
Paint	366	605*
Mobile Equipment		
Medical and laboratory	D24	1.1
Radio	455	154*
Repeater or replay	455	11*
Vechile and tuning	455	152
With vehicle	455	297
Robot	901	1*
Transceiver	455	89
Transmitter	455	95*
Mobile Home Design	D12	101*
Moccasin	36	11
Design	D 2	268*
Making	12	142MC
Model (See Toys)		
Airplanes	244	190
Demonstrating	434	365*
Dental	433	213
Photographic	354	292
Modular Construction	52	
Sub-enclosure section	52	79.1*
Modulator	332	
Bedroom combinations with lighting	362	801*
Carrier type electric wave	332	
Amplitude modulators	332	149*
Combined with radio transmitter	455	91*
Frequency modulators	332	117*
Keyers	375	68*
Phase modulators	332	144*
Pulse modulators	332	106*
Cathode ray intensity	313	441
Demodulator amplifier per se	330	10*
With meter	324	118*
Modulation meter		
Amplitude	332	150
Frequency	332	118
Pressure modulating relays or followers	137	82*
Radar type pulse modulators	342	194*
General	342	
With pulse frequency	342	201*
With phase	342	200
Module (See Block; Brick; Panel; Slab; Tile)		
Road or pavement, per se	404	34*
Static mold forming		
Barrier having plural simulated	249	16
Having hollow portions through	249	144
Intaglio or cameo areas on	249	140
Joined by tie	249	85
Modules		
Fiber or filament, high	428	902*
Moistener and Moistening		
Abrading combined	51	213
Air	239	34*
For hot air heating systems	237	78R*
Generally	261	
Barrel	217	97
Dispenser with	222	190
Envelope sealer combined	156	441.5*
Fireplace combined	126	508
Furnace hot air combined	126	113
Gas and liquid contact	261	
Heat exchanger combined	165	110*
Implement with material combined	401	
Label pasting or paper hanging machine combined	156	
Radiator combined	237	78R
Sewing machine combined	112	43
Stovepipe combined	126	313
Surgical electric applicator	128	803
Textile smoothing combined	38	3
Flatiron	38	77.1*
Thread finishing	28	217*
Tobacco	131	300*
Ventilator combined		
Floor	98	105
Wall	98	109
Moisture		
Curtains shades and screens operated	160	5
Indicator		
Content in gas	73	29.1
Thermal testing	73	25.5
Vibration testing	73	24.4
Electric alarms	340	604
Meteorological	340	602
Electric testing capacitative	324	658*
Electric testing resistive	324	691*
Humidity controller	236	44R
Hygrometer	73	335*
Meteorology	73	170R*
Rain alarm	116	69
Rain gauges	73	171
Testing content of	73	73*
Molasses	127	
Electrolytic treatment	204	138
Foods	426	658*
Animal	426	635
Waste as fertilizer	71	26
Moldboard	172	754*
Bulldozer	172	701.1*
Adjustable	172	811*
Supplemental or attachment type	172	817
Shiftable for hillside	172	204*
Supplemental or attachment type	172	754*
Molding (See Casting; Molds)		
Apparatus and appliances		
Blow molding	425	522*
Bread, pastry, confection	99	426*
Butterworker combined	425	200*
Casting mold making	164	159*
Ceramic materials	425	
Concrete	425	
Dairy cutters combined	425	289*
Dental impression	433	34*
Design	D15	135
Foam	425	4R*
Glass	65	
Heel and toe stiffener	12	64*
Heels	12	48
Injection molding	425	542*
Isostatic mold	425	405.2
Metal founding	164	139*
Plastics	425	
Press	425	406*
Soap	425	289*
Soap	425	290*
Sole blank	12	21*
Sugar draining combined	127	18*
Apparel	223	52*
Building element	52	716*
Article supporting	52	27
Baseboard	52	242
Corner attached	52	282
Corner type	52	288
Design	D25	136*
Embedded corner	52	164*
Filler strip	52	312
Veneer applying press	156	349
Carpet fasteners	16	7
Composition, mold forming	106	38.2
Electrical device in insulation	264	272.11
Metal working with other steps	29	DIG. 29
Picture frame	D25	119*
Plastic		
Apparatus	425	
Composition	523	1*
Processes		
Battery electrodes	264	
Battery grids	164	
Bread, pastry, confections	426	660*
Casting mold making	164	6*
Clay, concrete block, earthen and mineral	264	
Computer controlled, monitored	364	476
Glass	65	66*
Glass blowing combined	65	78*
Laminating combined	156	
Metal founding	164	1*
Metal working combined	29	527.1
Particulate material	264	109
Plastic	264	
Elastic memory	264	230
Sugar starch carbohydrates	127	59
Pulp	162	382*
Pulp	162	218*
Apparatus	162	382*
Tire mold	409	902*
Tobacco	131	
Molds		
Edibles, plastic deformation		

	Class	Subclass
Bread, pastry, confections	425	98*
Bread, pastry, confections	425	238*
Cooking	99	
Electroforming	204	281
Fermentation	435	
Kitchen utensil	D 7	672
Metal casting	164	
Dynamic	164	139*
Sand	164	349*
Static	249	
Type casting	199	
Nonmetal molding		
Bread, pastry, confections	425	98*
Bread, pastry, confections	425	238*
Building structure void former	52	577
Cooking	249	
Dentistry	433	34*
Earthen and ceramic	249	
Earthen and ceramic	425	
Glass	65	
Ice making	249	69*
Plastic	425	
Shaping with inflatable mold	264	45.2
Static	249	
Adjuncts	249	205*
Adjustable	249	155*
Destructible feature	249	61*
Element	249	187.1
Having chill	249	111
Having coating	249	114.1
Having ejector	249	66.1*
Having heating means	249	79*
Having removable liner	249	112
Having static filling means	249	105*
Hydraulic and earth control type product	249	10*
In situ construction building or engineering type	249	1*
Building structure	249	13*
Post	249	51
Product having joint or coupling	249	98*
Providing substitution of alternatively used parts	249	102
Road, sidewalk, curb	249	2*
Tobacco cigar	131	70*
Tobacco plug	131	119
Uniting preform with molding material	249	83*
Mole Traps	43	80
Molecular Beam	156	DIG. 103
Molecular Biology & Microbiology (See Cross Art Collections)	435	
Aeration or oxygen transfer technique	435	818
Anerobic cultivation	435	801*
Aseptic cultivation	435	800*
Chromatography	435	803*
Contamination reduction	435	800*
Continuous fermentation	435	813*
Elimination or reduction of contamination by undesired ferments	435	800*
Enzyme or microbe electrode	435	817*
Enzyme separation or purification	435	814*
By solubility	435	816*
By sorption	435	815*
Fermentation, continuous	435	813*
Fermentation vessels in series	435	819*
Fertility tests	435	806*
Foam control	435	812*
Gas detection apparatus	435	807*
Grinding	435	803*
Growth phase logarithmic	435	802*
Incubators, racks or holders for culture plates or containers	435	809*
Interferon	435	811*
Microorganism (See detailed breakdown after 820)	435	822*
Optical sensing apparatus	435	808*
Papers, test	435	805*
Physical recovery methods	435	803*
Protein, single cell	435	804*
Subcellular parts of microorganisms	435	820*
Test papers	435	805*
Tests, fertility	435	806*
Molecular Sieve (See Zeolites)		
Compositions	502	60
Gas separation	55	389
Process	55	75
Molecularly Oriented Stock	428	910*
Molybdenum		
Alloys	420	429
Composite metal stock	428	663
Heat treatment	148	133
Lubricating compounds	252	12*
Lubricating compounds	252	25*
Misc. chemical manufacture	156	DIG. 107
Organic compounds	556	57*
Pyrometallurgy	75	623
Momentum Liquid Piston Pump	417	240
Combustion combined	417	75
Money (See Coin)		
Belt	224	229
Box		
Coins	206	.8*
Fare type	232	7*
Register	235	100
Savings or bank type	232	4R*
Toy	446	8*
Toy design	D99	34*
Paper money sorting	209	534
Monitor		
Body function medical unit	D24	17
Monitoring and control	340	825.6*
Monitor Nuclear Energy	250	336.1
Clothing	378	38
Counters	250	390.1*
Fluorescent	250	361R*
Hand or foot	378	38
Nuclear reactor control combined	376	207
Fusion reactions	376	143
Thermo nuclear reactions	376	143
Photographic fogging	250	475.2
Photographic picture	250	475.2
Scintillation	250	361R*
With recorder	250	336.1
Monkey (i. E., Guided Hammer)	173	90*
Monkey Wrench		
Compound tool	7	139*
Monochromators		
Gratings	350	162.17*
Prisms	350	286
Monocles	351	41
Design	D16	100*
Lens lining or rim	351	154
Monoclonal Antibody as Test Component	436	548
Monoculars	350	507*
Monocycles	280	78
Monolithic Structure (See Concrete)		
Monoplane (See Aircraft)		
Monorail		
Design	D12	37
Rolling stock	105	141*
Track structure	104	118*
Montan Wax	260	420*
Monument	52	103
Coping	52	102
Design	D99	17*
Mooring Devices		
Aircraft	244	115*
Marine	114	230*
Map and Map Making		
Brush combined	15	115
Wringer combined	15	116.1*
Cabinet	312	206*
Coating material combined	401	268*
Fabric mop or mop head	15	229.1*
Having strands	15	229.1*
With fixed handle	15	229.2*
With pivoted handle	15	229.6*
Fabric type	15	228*
Holder	15	147R*
Wrapper or container	493	942*
Household cleaning tool	D32	35*
Machines	300	16
Wringer accessory	15	260*
Wringer combined	15	119R*
Moped	180	205*
Mordants	8	
Dyeing, textile printing	8	452
Dyeing, textile printing	8	460
Morphinan	546	74
In drug	514	289
Morphine	546	44
In drug	514	282
Morpholines	544	106
Morse		
Keys	178	101*
Signal translating to typeprinting	178	26.1
Mortar		
Bonded masonry	52	415*
Gun mounts	89	37.5
Introducing into ground	405	266*
Mixer	366	1*
Mixtures	106	638*
Muzzle loaded tubes	89	1.3
Pestle and	241	199
Tractor mounted mixing chamber	366	606*
Trench	89	1.35
Mortise		
Gauges	33	197
Making	144	67*
Woodworking	144	67*
Mosaic	428	49*
Architectural	52	311
Cathode ray tube	313	329
Electron emissive coating	427	75
Photosensitive tube	313	531
Wood grain pattern	52	313
Mosquito Net and Canopy		
Bed	5	414*
Canopies	135	87*
Mother Ships	114	258
Motionproofing		
Bags or holders	206	524.1
Compositions	424	
Processes	428	907
Moving	19	58*
Motion Picture Apparatus (See Camera)	352	
Animated cartoon camera	352	87
Cabinet	312	60
Change overs for pictures	352	135
With sound	352	1*
Combined with sound	352	1*
Design	D16	205*
Dissolves	352	91R
Editor viewer	352	129
Effects	352	85*
Films	352	232*
Winding and reeling	242	179*
Fire prevention	352	143
Multicolor	352	66
Nonintermittant projectors	352	105*
Optical compensation for motion of picture	352	105*
Optical printer	353	18*
Protection against fire	352	143*
Reels and reel winding	242	179*
Screen	350	117*
Shooting gallery	352	95
Stereoscopic	352	57*
Submarine camera	352	132
Threading devices	352	157*
Three dimensional	352	57*
Titler	352	90
View finder on cameras	354	219*
Winding and reeling means	242	179*
Nonwindable reel	242	55.17*
Reel drive plural	242	205
Motive Fluid Special	60	39.461*
External heat, not steam	60	671
External heat, nuclear energy	60	644.1
Heated in expansible chamber	60	509
Internal generation combined	60	39.15
Pressure fluid source & motor	60	326
Motive Fluid Work Cleansing		
Motive Power System, Electrical	318	
Motor (See Device Associated with; Fluid, Motor)	60	
Actuated devices (See device operated)		
Advancing		
Earth boring	175	92*
Animal powered	185	
Brake combined	192	1.1*
Closure, motor driven	220	211
Combined types	60	698*
Control, agitators	366	601*
Dental handpiece	433	131*
Design	D13	112*
Electric (See associated device; electric, motive power)	310	
Awning operator	160	310
Driving air pump	4	213
Driving compressional wave generator	340	384R*
Driving fishing reel	242	248
Driving locomotive	105	49*
Driving sound wave generator	367	140*
Driving spinning reel	242	225
Electric meter having	324	76R*
Electric system of supply	318	

	Class	Subclass
Fan driven by	416	170R
Fluid type	310	11
Linear	310	12+
Railway	104	290+
Magnetic conveyor	198	690.1
Motor and gearing	310	80
Motor control system	318	9+
Nonmagnetic	310	300+
Oscillating	310	36+
Prime mover dynamo plants	290	
Pump driven by	417	410+
Pyromagnetic	310	306+
Railway mail delivery having	258	4
Expansible chamber (See device associated therewith)	91	
Devices	92	
Digital	91	DIG. 1
Electrical control	91	459+
Electrical control	91	361+
Exhaust throttled motor control	91	DIG. 2
Large area valve	91	DIG. 3
Magnets	91	DIG. 4
One shot explosion actuated	60	632+
Plural expansible chamber	91	165+
Plural expansible chamber	91	508+
Fluid (See associated device; fluid, motor)	415	
Internal combustion engine	60	597+
Free piston device	60	596
Vacuum generated	60	397
Waste heat driven motor	60	597
Making	29	888+
Fluid reaction surfaces	416	
Fuels (See fuels; fluid, fuel)		
Liquid	44	300+
Generators	310	113
Heat		
Valve actuator	251	11
Hydraulic	60	325+
Hydro-pneumatic	91	4R
Impellers	416	
Induction systems	318	727+
Braking	318	757+
With reversing	318	741+
Starting	318	778+
Internal combustion	123	
Fluid motor combined	60	597+
Free piston device	60	596
Vacuum generated	60	397
Waste heat driven motor	60	597
Induction type governor valve	137	479+
Power plant	60	632+
Turbine combined	60	598+
Ion	60	202
Marine	440	84+
Mechanical motors	185	
Meter lights	362	25
Meters	324	76R+
Meters	324	139
Multiple	60	698+
One shot explosion actuated	60	632+
Outboard	440	53+
Container or package for	206	319
X-art collection	440	900*
Polyphase current	310	159+
Power plants	405	
Pumps	417	
Reaction (See jet, motor)	60	200.1+
Rotary expansible chamber devices	418	
Rotary kinetic fluid motor or pump	415	
Single phase current	310	159+
Spring	185	37+
Steering actuating	244	175+
Support	248	637+
System of diverse motors	60	698+
Punch card or tape control	60	703
Testing	73	116+
Tide or wave (See associated device)	60	497+
Pulsating flow drive	416	6
Utilizing natural heat	60	641.1+
Vehicle (See motor vehicle)	180	
Ward leonard systems	318	140+
Weight	185	27+
Motor Home		
Trailer design	D12	103
Vehicle design	D12	100
Motor Vehicle (See Vehicle)	180	
Airstream reactive	180	903*
Attracted to surface by fluid force	180	164
Baby seats	297	250+
Body	180	89.1+
Boiler plants	122	3
With vehicle structure	180	310
Brake	188	2R+
Carriage or crib, infant	180	166
Collision, protecting occupant or motor from	180	232
Control means		
Radiated wave responsive	180	167+
Velocity reponsive	180	170+
Electrical servo mechanism	180	178+
Fluid servo mechanism	180	175+
Control mechanism	180	314+
Crank and gear case lubrication	184	1.5
Demonstrating	434	373+
Differential mechanism	180	76
Door	49	
Energy accumulation by fluid or mechanical menas	180	165
Four wheels driven	180	233+
And steerable	180	234+
Differentially	180	248+
Including electric or fluid motor	180	242+
Frame	180	311+
Ground effect	180	116+
Harvester	56	10.1+
Heat and power	237	12.3 R
Land	280	
Laterally driven	180	199+
Leveling device	180	41
Locomotive	105	26.5+
Moped	180	205+
Operation instruction	434	62+
Parking, driven laterally	180	199+
Parking, programmable, steerable wheels	180	204
Plow	172	
Power, eg, traction motor	180	54.1+
Battery mount	180	68.5
Electric motor	180	65.1+
Four wheel driven	180	242+
Three-wheeled, coaxial wheels	180	214
Three-wheeled, steerable	180	216
Two-wheeled	180	220
Exhaust handling	180	309
Hood	180	69.2+
Motor driven by expansible gas	180	302+
Steam	180	303+
Motor driven by noncompressible fluid	180	305+
Motor powered from external source	180	2.1+
Force of nature, eg, sun, wind	180	2.2
Motor to frame relationship	180	291+
Radiator mounting	180	68.4+
Turbine, combustion product driven	180	301
Propelled by other than wheel	180	7.1+
Jet	180	7.3
Propeller	180	7.4
Screw	180	7.2
Stepper	180	8.1+
Track, portable	180	9+
Vehicle mounted winch	180	7.5
Radiator	165	41
Railway car propulsion	104	287+
Restraining belt or harness, system related	180	268+
Ignition or starter circuits	180	270
Transmission	180	269
Runner supported, eg, snowmobile	180	182+
Substitutable for wheel	180	183+
Endless track	180	184+
Surface engaging propulsion element	180	186+
Safety promoting means	180	271+
Absent, inattentive or unqualified operator	180	272
Acceleration, deceleration or tilt responsive	180	282+
Perimeter engagement responsive	180	274+
Unauthorized use prevention	180	287+
Vehicle load weight responsive	180	290
Seats with body modification	296	63+
Ship	114	
Ship propulsive systems	440	
Ski or skate type	180	180+
Snow excavator	37	231+
Steam powered tractive vehicle	180	36+
Steerable wheel, driven	180	252+
Five or more wheels	180	23+
Four wheels driven, all steerable	180	234+
Motor-carrying attachment	180	12+
Steam tractive vehicle	180	37+
Three-wheeled vehicle	180	211+
Two-wheeled vehicle	180	223+
Rotary-element driven wheel	180	222
Steering	180	79+
By differential traction	180	6.2
Endless track	180	6.7
By walking attendant	180	19.1+
Electrical power	180	79.1
Fluid power	180	132+
Four wheels driven, articulated frame	180	235
Gear	180	79+
Mechanical power	180	79.3
Shaft	180	78
Utilizing terrestrial guide	180	131
Suction effect	180	164
Supported by, & driving, other vehicle	180	198
Surface effect	180	116+
Traction motor powers external device	180	53.1+
Trailer combined	280	400+
Trains of vehicles	180	14.1+
Transmission mechanism	180	337+
Vertical surface transversing device	180	901
Wheel base, special	180	21+
Changeable location or number of wheels	180	209
Collapsible or knockdown	180	208
Five or more wheels	180	22+
Three-wheeled	180	210+
Two-wheeled	180	218+
Tandem	180	219+
Wheel chair, motorized	180	907
Wheel slip during acceleration, detecting	180	197
Motorcycle	180	
Design	D12	110
Frames	280	281.1+
Lights	362	72
Props	280	293+
Safety devices for motor vehicles	180	271+
Seat support	267	132
Steering	280	263+
Tandem design	180	219+
Design	D12	109
Three-wheeled evhicle	180	210+
Tracked	180	9.25
Two-wheeled vehicle	180	218+
Mount (See Supports)		
Acoustic diaphragm	181	198+
Aircraft		
Airfoils resilient	244	38
Power plant	244	54
Battery	180	68.5
Bearing		
Ball	384	537+
Roller	384	584+
Bracket special	248	205.1+
Electricity		
Conduit or housing	174	48+
Electric device	174	52.1+
Insulator	174	158R+
Eye glass lens	351	41+
Brace arm	351	103
Continuous rim	351	83
Pince-nez type	351	65
Rimless	351	110
Split rim	351	90
Fishing reel	43	22
Gun	89	37.1+
Spring	124	29
Outlet or junction box	220	3.3+
Photograph	40	152+
Picture frame	40	158.1+
Design	D 6	300+
Printing stencil	101	127.1+
Safes bank protection devices etc	109	50+
Sound box	369	157
Tool and machine part		
Brush bristle	15	186+
Brushing machine handle	15	22.1+
Comminutor	241	285R+
Earthworking	172	
Bulldozer	172	811+
Frame mount abrading	51	166R+
Gripper lever	74	156+
Gripper slide	74	160+

	Class	Subclass
Hand control lever	74	511R
Printing plate	101	382.1+
Snowplow	37	231+
Spring for spring motor	185	45
Squeezing machine textile	68	125
Work abrading	51	277
Wringer roller textile	68	272
Tripod	354	293
Camera support	354	293
Ladder prop	182	169
Pivoted ladders	182	104
Induction furnace	373	140+
Support stand	248	163.1+
Trolley wheel	191	63.3
Vehicle for conveyer	198	300+
Wheel and axle	301	
Cultivator, adjustable	172	395+
Land marker, slidable	172	126+
Land vehicle	301	
Panel hangers travelers	16	97+
Plow, adjustable	172	395+
Railway	295	
Railway motor axle mounting	105	136+
Railway rolling stock combined	105	
Railway truck axle box mounting	105	218.1+
Skate wheel	280	11.27+
Vehicle combined	280	29+
Mountain Climbing	248	925
Mounting		
Tires on wheels	157	
Mouse		
Guard		
Piano pedal openings	84	233
Traps	43	58+
Mouth		
Bag holders	248	99+
Boiler	122	499+
Doll part	446	395
Electric applicator	128	787
Electrical input device (see joystick)		
Guard animal type	119	129+
Guard human type	128	859+
Harmonica	84	377+
Harp	84	375
Organ	84	93
Organs	84	377+
Pieces		
Acoustical muffler	181	242
Animal bits	54	8+
Applying or forming cigar or cigarette	131	88+
Automatic wind instrument	84	93
Brass musical instrument	84	398+
Cigar or cigarette	131	361+
Clarinet	84	383R
Ear piece combined speaking tube type	181	20
Flexible bag closure	383	80+
For wind instruments	84	398+
Speaking tube	181	21
Telephone	381	157+
Antiseptic	379	452
Woodwind instrument	84	383R
Wash	424	
Movement Mechanical	74	
Belt & pulley drive system	474	
Step by step		
Annunciator systems	340	316+
Annunciators	340	815.8
Boring	408	70+
Copy holders movable copy	40	342+
Copy holders movable marker	40	352+
Electric motor operated temperature controls	236	76
Electromagnetic switch	335	138+
Endless conveyors	198	750+
Pusher	198	736
Floor jacks	254	14
Garment supporters and mortising cutters	144	71
Pencil lead advancing	401	65+
Separable fasteners	24	580+
Shingle sawing machines	83	704+
Strap tighteners	24	70R+
Telephone call systems	379	299+
Watch	368	76
Receptacles	206	18
Ring	368	299
Mover		
Bed	5	510+
Trunk tray	190	29+
Movie Apparatus	D16	205+
Moving Picture (See Motion Picture)	D16	205+
Mower		
Harvesting	56	
Sharpener	76	82.1
Mucic Acid	562	582
Mucilage Holder	15	
Design	D 9	
Muck and Scrap Bar	428	576+
Mud		
Bath	128	365
Drum cleaning	122	393
Gas content testing	73	19.9
Guard	280	847+
Design	D12	184+
Gun	266	273
Lifters for wells	166	162+
Ring	122	369
Cleaning	122	385
Traps		
Washers	134	109
Muff		
Apparel design, earmuff	D29	19
Apparel design, handmuff	D 2	611+
Ear and throat	2	208+
Fur	2	66
Hanger	223	97
Muffle & Muffler (See Insulating; Noise, Muffler)	181	212
Acoustical	181	175+
And heat exchanger combined	165	135
Making	29	890.8
Apparel	2	91
Design	D29	19
Dry closet with	4	481+
Exhaust treatment	60	272+
For distilling zinc	266	148+
Hobby craft engine	181	404*
Hood combined	2	203
Lock with silencer	70	463
Mouthpiece, ie telephone	181	242
Refrigerator compressor	181	403*
Screen or fence absorbing jet noise	181	210
Silencer for firearms	181	223
Sound absorbing material combined	181	256+
Jet engine muffler devices	181	222
Straight through continous passage	181	248
Through passage	181	252
Mulch and Mulching	47	9
Planters	111	144+
Transplanting through	111	102
Mule	57	320+
Womans footwear	D 2	283
Muller		
Comminutors	241	
Mullion	52	777+
Sash component	52	821+
Multicellular Living Organisms and Unmodified Parts Thereof	800	
Multicolor		
Ink block	101	134
Pen or pencil	401	34+
Box	206	371
Photography processes	430	357+
Printing	101	171+
Intaglio	101	151+
Planographic	101	135+
Stenciling	101	115
Weaving	139	453+
Multilevel Buildings	52	234+
Multiple		
Effect evaporators	159	17.1+
Expansion engine	91	152+
Semi-compound	91	8+
Filament lamps	313	316
Plant receptacles	47	85+
Telephone switchboard	379	310+
Tip multiple discharge coating implement	401	28
Valves	137	
Actuation	137	
Gas and liquid contact	261	42+
Wire systems for continuous current distribution	307	
Multiplex		
Diplexing	370	37
Duplexing	370	24
Facsimile	358	425
Frequency division	370	69.1
General purpose programmable computer system	364	200
Teletypewriter	370	41
Time division	370	77+
General purpose system	370	
Motion picture	352	81
Nippers with plural cutting blades	30	176
Optical	370	1+
Radio	370	
Shears	30	226
Multiplex shearing position	30	197
Special purpose digital data processors	364	900
Switching	370	53
Telegraph	370	41+
Telemetering	340	870.11
Seismic prospecting	367	78+
Telephone	370	
Multiplier		
Electronic tube	313	103R+
In amplifier circuit	330	42+
Frequency	363	157+
Electronic tube type	328	15+
Electronic tube type	328	20+
Multipliers Pattern Mechanisms	139	326
Multiplying		
Machines	235	61F+
Multipolar Instruments	33	1MP
Multiroom Builders	52	234+
Muntin (See Mullion)	52	766+
Murexide	544	296
Muscular Strength Measuring	73	379+
Coin controlled	194	
Mushroom		
Anchors	114	300
Culture	47	1.1
Fertilizing	71	5
Plant	PLT	89
Music (See Musical Instrument)	84	
Accessories	84	453+
Boxes such as swiss music boxes	84	94.1+
Design	D17	24
Cabinets	84	DIG. 17
Cases for music roll	206	308
Cases for musical instruments	206	314+
Cathode ray tube	84	DIG. 6
Chiff	84	DIG. 5
Chime	D17	22
Chimes for clocks	368	273
Chorus, ensemble, celeste	84	DIG. 4
Combined in another device		
Toys figure	446	297+
Toys figure wheeled	446	270+
Toys wheeled	446	409+
Crescendo	84	DIG. 16
Electric key switch feature	84	DIG. 7
Electronic gates for tones	84	DIG. 23
Exercising devices	84	465+
Feedback	84	DIG. 1
Filtering	84	DIG. 9
Foldable, detachable, collapsible	84	DIG. 3
Frequency dividers	84	DIG. 11
Gas discharge tube	84	DIG. 13
Holder		
Design	D 6	417
Music stand	248	441.1+
Piano music desks or racks	84	180
Piano music receptacles	84	181
Instruments	84	
Keyed oscillators	84	DIG. 8+
Leaf turners	40	530
Leaf turners for music	84	486+
Light sensitive resistor	84	DIG. 19
Note sheets for automatic players	84	161+
Page turners	84	486+
Piezoelectrical transducers	84	DIG. 24
Pitch (See tuning)		
Players and talking machines combined	84	4+
Plural speakers	84	DIG. 1
Preference networks	84	DIG. 2
Printed matter	84	483.2
Reverberation	84	DIG. 26
Service manuals	84	DIG. 28
Sheets	84	483.2
For mechanical players	84	161+
Side rhythm and percussion devices	84	DIG. 12
Stereo	84	DIG. 27
Striking trains for clocks	368	272
Tape	84	DIG. 29
Teaching devices	84	470R+
Toys	446	397+
Tuning	84	DIG. 18

	Class	Subclass
Tuning devices	84	454+
Typewriting machines	400	117+
Musical Instruments	84	1+
Accessories	84	453+
Automatic or self playing	84	2+
Bars	84	102
Bells	84	103
Combined	84	3+
Combs	84	94.1
Cylinder	84	106
Drums	84	104
Organ	84	84+
Piano	84	13+
Rolls for automatic players	84	161+
Selectors	84	115+
Stringed instrument	84	7+
Wind instrument	84	83+
Bowed		
Automatic device	84	10
Bowed piano	84	256+
Violin bow guides	84	283
Violin, cello, and bass	84	274+
Brasses	84	387R+
Trombone	84	395+
Valve type	84	388+
Cases for	206	314+
Hand carriers	224	910*
Violin case	206	14
Design	D17	
Accordians	D17	3
Instrument cases	D 3	30.1+
Organ cabinet	D17	5+
Percussion instruments	D17	22+
Pianos	D17	7
String instruments	D17	14+
Wind instruments	D17	10+
Drums	84	411R
Electric	84	600+
Fret control	84	DIG. 3
Keyboards	84	423R+
Keyed oscillators	84	DIG. 8
Manufacture of musical instrument	29	169.5
Mechanical resonator	84	DIG. 21
Monophonic	84	DIG. 2
Picking or plucking devices	84	320
Recording movement of keys	84	461+
Punched record	234	49+
Punched record	234	109+
Rigid vibrators	84	402+
Bells	84	406+
Service manuals	84	DIG. 28
Side rhythm and percussion	84	DIG. 12
Stringed	84	173+
Banjo	84	269+
Dulcimer	84	284
Guitars	84	267
Harp	84	264+
Mandolin	84	268
Pedal clavier	84	DIG. 25
Piano	84	173+
Violin	84	274+
Zither	84	285
Teaching devices	84	470R+
Top	446	258
Transposers	84	445+
Tuning devices	84	454+
Wind	84	330
Accordian	84	376R+
Accordian digest	84	DIG. 15+
Chord organ	84	DIG. 22
Clarinet	84	382
Flute	84	384
Harmonica	84	377+
Harmonica	84	DIG. 14
Pipe organ	84	331+
Actions and valves	84	332+
Valve tremolos	84	348
Reed organ	84	351+
Actions	84	365+
Stop actions and valves	84	369+
Saxophone	84	385R
Woodwinds	84	380R+
Musk Artificial	568	932+
Muskets	42	
Mustache Holder	132	215
Mustard	426	638
Gas	568	56
Mutation	435	172.1
Mutes		
Banjo	84	273
Brass wind instruments	84	400
Violin	84	310+
Mutoscopes	352	99
Muzzle	119	130+
Dog	D30	152
Mylar T M (See also Synthetic Resin or Natural Rubber)	528	308.1
X-art collection	310	800*
N-cl Compound	8	DIG. 2
Oxidizing compositions	252	186.35+
Nacelles		
Engine	123	41.7
Aircraft combined	244	53R+
Nafcillin	540	339
Nail	411	439+
Brush	15	167.3
Buffer	132	76.4+
Compound manicure tool with	132	75.6
Capping nail	10	156+
Design	D 8	391+
Digest	10	DIG. 4+
Extractor	254	18+
Feeding and distributing	227	107
Sorting	10	162A
Files	132	76.4
Design	D28	59
Fluorescent or phosphorescent	250	462.1
Hammer	227	133
Hole plug	52	514
Horseshoe	168	23
Calk	168	38
Insulated, electricalty	174	159
Making	10	28+
And driving	227	82+
Placer hammer	81	23+
Polish applicator	D 4	
Sets	81	44
Stripper	193	38
Nailing	227	
Broom making	300	13
Receiving strip	52	364
Reel	242	103
Shoe heel working and	12	43+
Shoe lasting and	12	13.1
Tool	12	108
Nainsook	139	426R
Name Plate	232	46
Design	D20	15
Holders	40	642+
Name Tag	D20	22+
Nandrolone, in Drug	514	178+
Naphthacetols	564	222
Naphthalene	585	400+
Hydrogenation of	585	266+
Sulfonic acids	562	89
Naphthalic Acid	562	488
Decarboxylation	562	479
Imides	546	
Naphthazarine	552	298
Naphthenic Acid	562	511
Naphthionic Acid	562	68
Naphthisatins	548	451
Naphthols	568	735+
Acylamino	564	123+
Acylaminosulfo	562	47
Amino	564	428+
Aminosulfo	562	70
Azo compounds ctg	534	573+
Carboxylic acids	562	466+
Amides	564	173
Esters	560	56
Nitro	568	707
Sulfo acids	562	79
Naphthothiophenes	549	43+
Naphthylamine	564	428+
Naphthyridine	546	122
Napkin	D 6	595
Design	D 6	595+
Design, paper	D 6	595
Holder		
Body supported	24	7+
Design	D 7	631
Stands	248	127+
Sanitary	604	358+
Design	D24	49
Materials for	604	367+
Napping, Cloth Finishing	26	29R+
Hat making	223	18
Narceine	549	444
Natural Rubber (See Synthetic Resin or Natural Rubber)		
Naval (See Marine)		
Navigation		
Calculators	235	61NV+
Celestial navigation training	434	111
Computer controlled, monitored	364	443+
Course recorders	346	8
Decca	342	397
Instruments (See notes thereto)	73	178R+
Geometric	33	
Loran	342	388+
Omega	342	396
Radionavigation training	434	239
Tacan	342	399
Underwater signal for position finding	367	137
Nebulizers		
Sprayer structure	239	338
Surgical	128	200.14
Neck		
Appliance for thermal surgical treatment	128	380
Bottle	215	31+
Nonrefillable separate	215	30
Cleaning brush for bottle	15	67
Glass reshaping to form	65	108+
Labelling machine for bottle body &	156	476+
Musical stringed instrument	84	293
Pad for harness	54	67
Stock for animal restraining	119	98
Support bracket engaging receptacle	248	312
Supported shower bath	4	618
Tobacco pipe bowl detachable from	131	222
Trap	131	214
Yoke for animal	D30	137
Draft appliance	278	119+
Restraining poke	119	136+
Necklace	D11	3+
Neckwear		
Collars	2	129
Design	D 2	600+
Ironer engaging neckband for clamping	38	13
Ironers for collars and neckbands	223	52.1+
Ironing table with neckband shaper	38	109+
Napkin holder inclosing	24	9
Shaping forms	223	81+
Shirt neckbands	2	127
Ties	2	144+
Design	D 2	605+
Fasteners	24	498+
Design	D11	202+
Hanger	D 6	315+
Machines for sewing	112	121.22
Rack or holder	D 6	315+
Needle	369	173
Blasting fuse setting	86	21
Compass	33	355R+
Cord knotter	289	16
Harvester needle cleaner or guard	56	448
Crochet	66	118
Gun	42	16+
Hypodermic	604	187+
Pocket carrier for	206	365+
Injecting for pickling	99	532+
Injector liquid applying to textile	68	201
Knitting	66	116+
Design	D 3	28
Machine		
Buttonhole sewing	112	65+
Embroidering	112	78+
Knitting textiles	66	
Independent	66	7+
United	66	78+
Leather sewing	112	28+
Sewing	112	
Stitch forming	112	154+
Textile needling	28	107+
Fluid needles	28	104+
Weaving	139	440+
Making	163	
Abrading process	51	281R+
Crochet	163	2
Eye polishers	51	152
Straightening or bending	72	319
Packages or cases	206	380+
Design	D 9	303
Drill holder type	206	379
Phonograph	369	173
Design	D14	264
Radioactive seed holder	600	7+
Seine making	87	60
Sewing	223	102+
Holder for	223	109R

	Class	Subclass
Machine	112	222
Machine design	D15	72
Surgical		
Electric	606	44
Intravenous	604	30+
Needles	606	222+
Staple	606	219+
Suture or ligature	606	228+
Threaders		
Hand needle	223	99
Sewing machine	112	222+
Sewing machine design	D15	72
Winding cordage on seine	242	51
Needling		
Processes	28	107+
Fluid needling	28	104+
Negative		
Developing apparatus	354	297+
Developing methods	430	434+
Photographic article	430	
Making camera copy	430	951*
Printing positives from negatives	355	
Sensitizing	430	425+
Developing	430	401+
Washing or fixing apparatus	354	297+
Negative Feedback Amplifier	330	75+
Negligee	D 2	12+
Neomycins	536	13.2
Neon (See Gas, Rare)	422	262
Lamp	313	567+
Manufacture	445	26
Repair	445	
Apparatus	445	61
Process	445	2
Supply circuit	315	
Tube per se	313	567+
Liquefaction and separation	62	36+
Processes	62	22
Sign	40	545
Tube support	248	50
Tube support	362	217+
Neoprene (See Chloroprene Under Synthetic Resin or Natural Rubber)		
Neosalvarsan	556	67
Nephelometer	356	339
Chemical analysis, apparatus	422	82.5
Nernst Lamps	313	14
Supply circuits for	315	
With heater for	315	112+
Nest		
Eggs		
Medicated	119	46
Poultry and fowl	119	45.1+
Design	D30	108+
Trap	119	47+
Nested and Nesting		
Beds	5	8
Bottles and jars	215	10
Drying drums or receptacles	34	128
Lock tumbler	70	324
Metallic receptacles	220	23.6
Multi article package	206	499
Multi part key	70	400
Stove kit	126	38
Vehicles	280	33.991+
Net		
Coated	428	255
Fabric	D 5	11+
Fire escape	182	138+
Fishing	43	7+
Fly	54	81
Game element	D21	48
Hair	132	274
Insect or bird catching	43	134
Making	87	
Making and handling		
Hauling fish	43	8+
Hoist line slings	294	77
Textile	87	
Textile design	D 5	
Vehicle fender barrier type combined	293	40
Vehicle fender scoop type	293	46
Wire	140	3R+
Mosquito for beds	5	414+
Torpedo	114	241
Tying machines	87	53
Wire	245	
Nether Garment		
Apparel	2	210+
Design	D 2	1+
Apparel knitted	66	175+
Netting	D 5	11+
Neutralization of Amplifiers by		
Feedback	330	76+
Transistor type	330	292
Neutralize Inductive Effect	307	8?+
Telegraphy	178	69R
Telephony	379	415+
Neutralizing		
Capacitor	361	271+
Compositions	252	189+
Electric charge	361	212+
Neutron		
Absorbing, reactor control	376	216
Control component structure	376	327
Reflector or shield	376	458
Amplifier	376	171
Apparatus using	250	390.1+
Beam	430	953*
Chemical apparatus	204	193
Control	376	327
Fuel component structure	376	419
Including testing, etc	376	215
Reflector or shield	376	220
Detection or counting	250	390.1+
Nuclear reactor combined	376	245
Scintillation	250	458.1
Tubes	376	153+
Fast, reactor	376	171
Fast, reactor	376	348
Flux, distribution control	376	207
Generation	376	108+
Nuclear reactions	376	
Intermediate	376	346
Moderated	376	347
Reflector	376	173
Reflector	376	220
Reflector	376	350
Reflector	376	458
Fluid	376	221
Shield	250	518.1
Nuclear reactor, use in	376	287
Survey meters	250	390.1+
In fluid	250	336.1
Tubes for	376	153+
Thermal	376	347
Unmoderated	376	171
Unmoderated	376	346
Utilization	376	158
Newel Post	52	301
Newspaper		
Delivery box	D99	29
Vending machine	D20	6
Niacinimide, in Drug	514	355
Nibbling Sheet Material	83	916*
Nickel		
Alloys	420	441
Copper	420	457
Iron chromium	420	34+
Super alloys	420	445
Cadmium batteries	429	
Composite metal stock	428	680
Electrodeposition	204	49
Electrolytic synthesis	204	112+
Heat treatment	148	162
Hydrometallurgy	75	711+
Inorganic compounds	23	
Misc. chemical manufacture	156	DIG. 1
Organic compounds	556	138+
Pyrometallurgy	75	628+
Combined with hydrometallurgy	75	416+
Nickel Silver	420	481
Nickelodeon	D14	173
Nicking		
Screw heads	10	5
Screw sheet metal cap	10	159
Nicotinamide, in Drug	514	355
Nicotine	546	282
Biocides containing	514	343
Removal from tobacco	131	297
Nicotinic Acid	546	318
In drug	514	356
Night Soil		
Fertilizers	71	12+
Purification	210	600+
Nightgowns	2	69.5+
Design	D 2	17+
Nightshirts	2	114
Nightwear	2	
Nigrosines	544	348
Dyes	8	649
Niobate Ceramic Compositions	501	134
Niobium		
Alloys	420	425
Chemical manufacturing	156	DIG. 87
Nipper		
Cutlery	30	175+
Handles	30	341
Manicure	30	28
Shears combined	30	145
Label pasting	156	569+
Manacle and cuff	70	17
Nail plate	10	178
Pliers combined	7	125+
Pliers combined	7	133+
Shoe lasting	12	14.5
Nipper stretcher	12	9+
Nipper wiper	12	8.5
Textile spinning etc	57	114
Nipple		
Applying tool	29	235.5
Chafe prevention	128	890
Dispenser	222	490
Firearm	42	83
Nursing	215	11.1+
Pediatric, oral stimulator	D24	45
Pipe coupling	285	239+
Punching device	83	
Teething	606	235
Valve	137	846+
Nitramines	564	107+
Acyclic	564	109+
Nitroguanidines	564	108
Nitranilines	564	441
Nitrates		
Esters acyclic or carbocyclic	558	480+
Esters carbohydrate	536	18.7+
Cellulose	536	35+
Explosive containing		
Fertilizers containing	71	58+
Phosphates combined	71	50
Inorganic	423	395
Metallo organic	556	1+
Composition containing	149	23+
Explosive or thermic	149	23+
Nitrogen oxides from	423	400
Organic explosive containing	149	88+
Nitration		
Cellulose	536	35+
Hydrocarbons	568	924+
Organic nitrate preparation	558	480+
Nitric Acid	423	391+
Concentration	159	
Distillative	203	13
Detergents containing	252	101
Esters (See nitrates)		
Phosphate treatment with	71	39
Nitrides	423	409
Ceramic compositions	501	96
Misc. chemical manufacture	156	DIG. 99
Nitriding		
Iron	148	14
Gaseous medium	148	16.6
Nitrile Imines	558	299
Nitrile Oxides	558	299
Nitriles	558	303+
Acyclic	558	435+
Alicyclic	558	428+
Alpha-imino	558	300+
Aromatic	558	388+
By ammoxidation	558	319+
Dimerization of	558	360+
Disproportionation of	558	377
Nitrilotriacetic Acid	562	572
Nitrites		
Esters	558	488
Inorganic	423	385
Nitro Compounds		
Organic	568	924+
Phenols	568	706+
Reduction to primary amines	564	416
Nitrocellulose (See Cellulose, Ether, Ester)	536	35+
Nitrogen	423	351
Acids & acid anhydrides, inorganic	423	385+
Explosive or thermic composition containing	149	74
Compositions containing	252	374+
Electrolytic synthesis	204	128
Electrolytic synthesis of compounds		
Aqueous bath	204	91
Fused bath	204	63

	Class	Subclass
Electrostatic field or electrical discharge compound preparation	204	177*
Fertilizer containing compounds	71	
Fixation		
Ammonia production	423	352*
Arc or spark	422	186.24
Fermentative	435	128
Fertilizer preparation	71	7
Inorganic cyanide production	423	364
Wave energy or corpuscular radiation	422	904*
Fuel containing compounds	44	
Obtaining from air by liquefaction	62	8*
Oxides	423	400*
Explosive or thermic containing	149	74
Rings	552	1*
Nitroglycerin	558	486
Explosives	149	101*
Nitronic Acids	568	926*
Nitroparaffins	568	943*
Explosives containing	149	89*
Nitrophenols	568	706*
Explosives containing	149	24*
Explosives containing	149	55*
Explosives containing	149	68
Explosives containing	149	80
Explosives containing	149	105*
Nitrosamines	564	112*
Acyclic	564	113*
Dyes containing	8	665
Nitroso Compounds	568	949
Dyes containing	8	665
Nitrosoamines	564	112*
Nitrostarch	536	48*
Explosives containing	149	58*
Explosives containing	149	108
Nitroxides	564	300
Nobel Metals		
Hydrometallurgy	75	711*
Organic compounds	556	136*
Phosphorus containing	556	13*
Pyrometallurgy	75	631*
Combined with hydrometallurgy	75	416*
Nails	19	115R
Noise Bucking in Amplifiers	330	149
Noise Deadening (See Insulating, Sound)		
Ear stoppers	128	864*
Generator		
Electronic tube type	331	78
Jet engine noise muffling		
Blast deflector fences	244	1148
Highway screen or fence	181	210
Limiters		
Audio type	381	158
In radio receiver	455	213
In radio receiver	455	308*
Noise or unwanted signal reduction in nonseismic receiving system	367	901*
Pulse or digital	375	58
Squelch	455	222
Mathematical, reduction	364	574
Muffler	181	175*
Combustion products generator	60	723
Gas separator combined	55	276
Machine support	248	637*
Railway rolling stock	105	452
Railway surface track	238	382
Railway wheel and axle	295	7
Vehicle antirattler	280	138
Non (See Anti)		
Non-human Animal	800	2
Nonrecoil Guns	89	1.7
Nonrefillable		
Bottle or jar	215	14*
Dispenser	222	147
Light bulbs	313	314
Noodles	426	557
Cutting machines	83	
Noose Traps	43	87
19-norandrostenes	552	642*
Nortestosterone, in Drug	514	178
19-nortestosterones	552	646*
Noscapine	546	90
Nose		
Bridges	351	124*
Guard	2	9
Hair cutters	30	29.5
Pads or cushions for spectacles	351	136*
Pince-nez type	351	78*
Integral with bridge	351	131*
On bridge	351	132*
Pieces nail plate	10	178
Ring and clip	119	135
Nosecones	244	158R
Nosing-stair	52	179
Notching (See Cutters; Edge; Pinking)		
Selective	234	47*
Shears	30	229*
Sheet material	83	917*
Wood	144	196
Note Sheet		
Instrument control	84	115*
Musical	84	161*
Musical comb	84	101
Printed	84	483.2
Swiss or regina music box	84	101
Nottingham Lace	87	4
Novobiocin	536	13
Novocain T M	560	49
In drug	514	535
Nozzle	D23	213*
Agricultural, horticultural, forestry sprayers	D 8	2
Air blast	239	589*
Air moistening	239	543*
Boiler cleaning	122	405
Cotton picker	56	32
Design	D23	213*
Digest, drying & gas or vapor contact with solids	34	
Dispensing (See definition notes)	222	566*
Cutter or punch with	222	80*
Functioning as handle	222	475*
Molten metal	222	591*
Movable (See definition notes)	222	526*
Valve or closure with (See notes to definitions of)	222	544*
Earth boring nozzle	175	424
Extruding		
Die expressing earthenware	425	461*
Die expressing plastic metal	72	367*
Die expressing plastics	425	461*
Filament forming	425	66
Filament forming	425	67*
Filament forming	425	76
Filament forming	425	382.2
Sausage stuffer	17	41*
Fire engine	239	436*
Firemans nozzle operated closure	49	21*
Flow meter		
Pressure differential type	73	861.61*
Weir type	73	216
Flow regulating or modifying	239	533.1*
Fluid handling	137	801
Combined with valve	251	155*
Fluid feeding nozzles digest	261	DIG. 39
Swinging	137	615*
Injection mold nozzle vale	425	DIG. 224
Actuated by contact with mold	425	DIG. 226
Automatic control	425	DIG. 225
Injection nozzle, positioned flush with mold or cavity	425	DIG. 227
Jet motor	60	273
Discharge	239	265.11*
Jet pump		
Regulator pump	417	182*
Structure pump	417	151*
Liquid level gauge	73	294
Making	29	890.142
Materials for	239	DIG. 19
Oil filter for fuel entering nozzle or float chamber	261	DIG. 4
Pile installing	405	248
Pneumatic conveyor		
Suction	406	152
Reaction jet motor drive	415	80*
Reaction motor discharge	239	265.11*
Resilient	239	602
Safety air nozzles	239	DIG. 22
Sandblast	51	439
Soda water (See valve, soda water, faucet)		
Spray	239	
Suction cleaner	15	415.1*
Supports	248	75*
Syringe	604	275
Textile machine	68	59
Track sander nozzle	291	46*
Cleaner	291	12
Vacuum	15	300.1*
Nuclear Energy (See Atomic Energy)	376	
Alloys	420	1*
Compositions	252	625*
Organic	534	11*
Metallurgy	75	393*
Nuclear energy simulation	434	218
Nuclear Reactions & Reactors	376	
Absorbing material for neutrons	376	339
Control component	376	327
Monitoring with control	376	207
Thermonuclear reaction	376	143
Accelerated particle reactions	376	190
Actinide metal	75	393*
Conversion nuclear	376	156
Adhesively bonded fuel layers	376	416
Alloys, actinide	420	1*
Conversion nuclear	376	156
Altering fuel	376	358
For control of reactor	376	212
Amplifier neutron	376	171
Associated reactor components	376	347
Boiling water reaction	376	370
Bonded fuel layers	376	416
Breeder reactor	376	171
Bundle, fuel component as	376	434
By-products	376	189
Handling reaction products	376	308
Treating reaction products	376	201
Impurities removed	376	146
Treatment	376	201
Carrier		
Control or absorbing material	376	239
Conversion, fuel material or sample	376	261
Insertable carrier	376	342
Fluid	376	354
Molten vehicle	376	359
Ceramic fuels	376	409
Compositions	252	625*
Chemical reactions combined	376	323
Chemically bonded layers or parts	376	416
Circulating fluid	376	361
Flow control	376	370
Fuel charge, discharge	376	264
Plural fluids chemically different	376	366
Tanks for	376	403
Coated fuel layers	376	416
Condition determining	376	245
Detecting fuel leak with warning	376	251
Testing, automatic	376	245
Testing, with reaction control	376	207
Contact, fluid-fluid	376	366
Containment, plasma	376	150
Control	52	223R*
Absorbing material combined	376	215
Absorbing material combined	376	327
Adjusting, moving, or conveying	376	219
Automatic control	376	217
Component mechanism	74	
Compositions	420	
Control rod driving	376	219
Handling	376	260*
Location with respect to reactor	376	353
Material for	376	339
Plasma containment	376	100
Plural components	376	213
Sensing & automatic correlation	376	217
Structure	376	327
Conversion nuclear reaction	376	156
Coolant (See moderator)	376	350
Circulating	376	361
Fuel contact	376	395
Materials	376	904
Core	376	
Arrangements	376	267
Associated with other components	376	348
Charging, discharging	376	264
Fluid flow pattern	376	395
Geometry	376	901
Peripheral clamping	376	302
Structures	376	421
X-art	376	903
Correlating reactor conditions	376	216
Critical reactions	376	347
Area	376	212
Sub critical	376	158
Damage control	376	277
Definition by reactor geometry	376	908
Detecting, reactor condition	376	245
Control of reactor combined	376	207
In motion	376	215

	Class	Subclass
Leak in fuel structure	376	251
Warning material included	376	450
Deuterium heavy hydrogen	423	648.1*
Compounds inorganic	423	644
Electrolytic production	204	101
Thermo nuclear fuel	376	151
Deuterium oxide heavy water	423	580*
Catalytic recombiner	422	177*
Electrolytic production	204	101
Moderator, handling	376	220
Moderator, materials conversion	376	179
Moderator, plural components	376	358
Discharging, fuel	376	264
Grapple for	294	86.4*
Grapple for	294	906*
Machine for	414	146
Diverse reactor components or materials	376	347
Control rod structure	376	327
Fuel structures	376	409
Handled with fuel	376	262
Moderator channels containing	376	354
E-layer in plasma containment	376	126
Effective density		
Fuel	376	212
Moderator	376	350
Electrical field plasma control	376	144
Electrodes-concentric	376	145
Electrically charged particles accelerated	376	190
In plasma control	376	105
Encased fuel structure	376	412
Energy-power or heat utilization	376	391
Electrical dynamo plants	290	
Electrical generator motor	310	
Single systems	322	
Electrical, radiant	250	493.1
Heat	237	
Motive fuel heating	60	644.1
Propulsion air	244	53B*
Reaction motors	60	203.1
Thermionic	310	306*
Thermoelectric	136	202
Fertile material or blanket	376	172
Fluid or fluent	376	172
Handling	376	178
Location in reactor	376	172
Fission	376	347
Fission	376	409
Fluid, fluent	376	361
Colloid or slurrie	376	356
Fluidized bed reactor	376	355
Moderator	376	350
Coolant	376	401
Molten	376	359
Plural	376	366
Tank, for	376	403
Fuel (See fuel, nuclear)	376	409
X-art collection	376	901
Gas vapor	376	366
Plural fluids	376	369
Single fluid	376	383
Used exterior of reactor	376	378
Geometry reactor	376	908
Girdle, confining moderator structure	376	302
Handling	376	260
Absorbing material	376	260
Control component	376	260
Control rod motivating	376	219
Fertile material or fuel	376	171
Fuel component element	376	212
Refuelling grapples	294	86.4
Refuelling grapples	294	906*
Refuelling machines	414	146
Refuelling schemes	376	267
Shield or reflector	376	220
Heat use of nuclear energy for	237	
Heatpipes	376	367
Heavy water (See deuterium oxide)	376	221
Hollow layer fuel, concentric helical	376	431
Hydrogen	423	648.1*
Compound (See water)	423	580
Electrolytic production	204	101
Thermonuclear fuel	376	152
Impregnated fuel layer	376	414
Impurity (See by-product)	376	310
Ceramic	252	625
Metal	420	1*
Inorganic fuel compounds	423	249*
Ionized gas fuel	376	156
Irradiation conversion	376	156
Isotope conversion production	376	156
Jacket materials	376	457
Jacketed fuel component	376	414
Layered fuel component	376	414
Coated or impregnated	376	416
Concentric helical, hollow	376	431
Linear fusion reactor	376	139
Magnetic field plasma control	376	121
Compressive, mirror, pinch effect	376	140
Linear reaction zone	376	139
Material	376	900
Conversion or irradiation	376	156
Handling	376	260
Measuring reactor condition	376	245
With control of reactor	376	207
Automatic	376	217
Mechanical spacer	376	462
Supports for fuel	376	362
Metal		
Nuclear fuel material	376	409
And metals	420	1*
Metallurgy	75	393*
Mirro effect plasma control	376	140
Mobile nuclear reactor	376	909
Moderator	376	458
Associated with other component	376	350
Circulating fluid	376	350
Confining means for	376	304
Density varying of	376	350
Flow effect	376	352
Fluid type	376	356
Fuel, encased with	376	423
Dispersed in	376	356
Gas	376	383
Geometry	376	904
Girdle for	376	304
Materials for	376	904
Metal	376	906
Organic	376	905
Organic compounds as	260	
Remaking	376	358
Molten fuel or carrier	376	359
Monitoring nuclear reactions	376	245
With reactor control	376	207
Neutron (See neutron)	376	
Burst or pulse production	376	208
Nonaqueous vapor treatment	376	380
Organic compounds	534	10*
Peripheral support for moderation	376	304
Personnel protection feature	376	277
Plasma (See plasma)	376	100
E-layer containment	376	126
Electric field confinement	376	144
Fuel injection	376	127
Impurity removal	376	146
Linear movement	376	139
Magnetic field confinement	376	121
Plutonium (See fuel nuclear)		
Alloys	420	1*
Electrolytic production	204	- 1.5
Inorganic compounds	423	251
Metallurgy	75	396*
Nuclear fuel	376	
Organic compound	534	11*
Pool tank	376	403
Power plant		
Combined with prime mover	60	203.1
Combined with prime mover	60	643*
Pressure vessel	376	294
Concrete	376	295
Pressurized	376	230
Fluid	376	366
Product reactor		
Handling during conversion	376	171
Handling product	376	308
Recovery	376	195
Removal	376	146
Propulsion, using energy for		
Air	244	53R*
Marine	114	
Thrust	376	318
Protecting against radiation damage	376	277
Pulse production, nuclear burst	376	208
Pumps	417	
Gas	415	
Plasma	376	100
Radioactive	376	
Alloys as fuel	376	422
Associated plural reactor components	376	347
Compositions	252	625*
Handling	376	260
Irradiation or conversion of materials	376	156
Waste, disposal	252	626*
Recombiner included catalytic	376	301
Reflector	376	458
Handling	376	220
Reservoir tank, pool	376	403
Rod for carrying	376	239
Control rod element	376	327
Automatic	376	217
Safety devices	376	277
Control rod, reflector, shield	376	220
Monitoring	376	245
Neutron absorbers	376	327
Safety fuse	376	336
Shielding	376	288
Sample specimen		
Irradiation of	376	340
Location in reactor	376	342
Treatment with accelerated particle	376	189
Seal for fuel component	376	451
Leak warning feature	376	450
Sensing of reactor condition	376	245
Control combined	376	207
Separating (See --, by-product)		
Chemically different fluids	376	368
Chemically similar fluids	376	370
Servo systems	376	259
Fuel handling	376	261
Shapes		
Fuel	376	409
X-art	376	903
Shield		
Biological or thermal	376	289
Handling	376	260
Shielding for nuclear reactor	376	287
Structures	250	518.1
Shock absorbers		
Absorbing unit materials	376	339
Control component combined	376	234
Control rod	376	234
Sintered fuel		
Non-metal	264	21
Stock metal	75	228*
Source for radioactive energy	376	
Particles	376	190
Structure	250	493.1
Neutrons	376	108*
Stacked fuel components	376	433
Subcritical reactor	376	158
Support reactor	376	362
Fuel core	376	362
Moderator	376	304
Swimming pool reactor		
Fuel component	376	409
Materials conversion	376	176
Plural reactor components	376	361
Tank, as reactor vessel	376	403
Thermal	376	
Insulation or shield	376	289
Thermonuclear reaction	376	100
Thorium (See fuel, nuclear)		
Alloys	420	1*
Compounds	423	252
Electrolytic production	204	1.5
Metallurgy	75	394*
Organic compounds	534	11*
Transformation (See conversion)	376	156
Underground nuclear explosion	376	273
Uranium		
Alloys	420	1*
Breeder material	376	172
Compositions radioactive	252	625*
Organic	534	11*
Electrolytic production	204	1.5
Fertile material	376	172
Inorganic compounds	423	253*
Metallurgy	75	398*
Valves, joints	251	
Systems	137	
Waste disposal, radioactive	252	626*
Weld closure for fuel component	376	451
Well processes	166	247
Nucleic Acids	536	22*
Nucleosides	536	22*
Nucleotides	536	22*
Number Plate Illuminators	362	253
License plate	362	253
License plate	40	300*

	Class	Subclass
License plate	40	204+
Locomotive headlight	362	61+
Sign	40	541+
Telephone dial (See telephone dial)	362	24
Numbering		
Photographic negatives	354	105
Printing machine	101	72+
Ticket type	101	70+
Serial number punching	234	61
Nurling (See Knurling)	72	191+
Nursing		
Apparel		
Blouses	2	104
Brassieres	450	36
Bottles	215	11.1+
Design	D24	47
Nipple applying tool	29	235.5
Nipples for	215	11.1+
Supports for	248	102+
Figure toys	446	304
Nut		
Cracker	30	120.2+
Design	D 7	680
Fastening	411	427+
Food preparation	426	632+
Bleaching	426	253+
Cracker	99	568
Grinding	241	
Skinner or blancher	99	623
Hardware	D 8	397
Lock		
Hand tool for applying	81	10
Washer making	10	73
Locked to bolt	411	190+
Jam nut, ie, plural nuts	411	222+
Used with thread lock	411	259+
Castellated nut	411	280
Distorted nut	411	276
Segmented nut	411	266
Locked to substructure	411	81+
Deformable or deforming nut	411	177+
Cylindrical, inner & outer thread	411	178
Folded nut	411	170
Pierce nut	411	179
Weld nut	411	171
Making	10	72R+
Assembling with bolt	10	155R+
Punching blank	83	
Plants	PLT	30+
Roaster	D 7	323+
Shell liquor synthetic resin	528	1+
Spring nut remover	29	270+
Nutcracker	30	120.2+
Nylon (See Synthetic Resin or Natural Rubber)		
Bleaching & dyeing digest	8	DIG. 21
Chemical modification of	525	420+
Dyeing	8	
Fiber	428	475.5
Chemical modification of	8	115.51
Oar	440	101+
Design	D12	215
Lock	440	106+
Oast	432	120+
Oatmeal Making	241	
Objectives		
Photographic	350	409+
Telescope and microscope	350	414+
Obee	84	380R+
Observation Boat	114	66
Obstacle Controlled or Operated		
Tire pump element	152	423+
Vehicle step, pivoted	182	91
Spring biased	182	89
Obstetric Appliances		
Embryotome	606	126
Exercising	128	31
Forceps	606	119+
Instruments	606	119+
Receptor	604	317+
Tractors	606	119+
Ocarina	84	380R
Occult Blood	436	66*
Occupational Training	434	219+
Ocean Thermal Energy Conversion, Otec	60	641.7
Octane (See Paraffin Hydrocarbon)		
Production by alkylation	585	709+
Octave		
Couplers for pianos	84	235
Couplers for pipe organs	84	340+
Couplers for reed organs	84	373
Octode Converter	313	300
Odometer	235	95R+
Combined with electrical speed indicator	324	166
Design	D10	70
Speedometer	116	62.1
Oderizer	48	195
Gas & liquid contact apparatus	261	DIG. 17
Odor release material	428	905*
Office Equipment		
Desk type name plate	D20	15
Machines	D18	
Machine cabinets	D18	
Miscellaneous, design	D19	65+
Photocopy machines	D18	36+
Offset		
Metal bending	72	386+
Printing	101	130+
Offshore		
Platform	405	195+
Floating	114	264+
Well	166	335+
Offtake		
Distillation	202	254+
Flue boiler feed heater	122	421
Furnace shaft	266	159
Ventilating hood	98	115.1
Ohmmeter	324	691+
Oil (See Particular Type)		
Burners (See notes to)	239	
Nozzles (See notes to)	239	
Retort	431	206+
Burnishing	29	89.5
Can	220	
Cutting spouts	222	81+
Design	D23	211
Dispensers	222	
Resilient wall	222	206+
Cutting	252	9+
Distributor		
Ammunition and explosive device	102	366
Buoys	441	34
Fluid breakwater	405	22
Harbor installations	405	22
Wave or ships hulls	114	232+
Edible	426	601+
Preservation	426	330.6+
Emulsions	252	312
Essential	512	5
Filters	210	348+
Fuel entering nozzles or float chamber	261	DIG. 4
In closed circulating system	210	167
Fuel	44	
Burner nozzle (See notes to)		
Burner solid fuel combined	110	260+
Mineral oil only	208	15+
Gages on lamp stands	431	13
Gas making	48	61+
Glyceride	260	398+
Lamps	431	298+
Leak collection	405	60
Lubricating	D 9	301+
Mineral oil only	208	18+
Refrigerant or energy exchange combined	252	68
Mineral	208	
Oil water skimmers	210	242.3
Paints	106	253+
Spill containment	405	60+
Stone	51	213
Synthetic resin ctg fatty acid triglycerides (See synthetic resin or natural rubber)		
Testers	73	53+
Toilet	4	DIG. 11
Transformer	252	570+
All-hydrocarbon	585	6.3+
Vulcanized factice	106	249
Water gas	48	84
Well	166	
Drilling	175	
Heaters electric	392	301+
Making fulters	29	163.8
Strainer making	29	6.1+
Oil Shale		
Distillation	201	
Mineral oil from	208	400+
Oiler and Oiling (See Lubrication)		
Abrading	51	213
Conduit in drill bit	408	57
Cutter	83	169
Die screw	408	56
Dispenser	222	
Flow meter	73	280
Heat exchange control	165	13
Oil cup closure	184	88.1+
Saw	83	169
Saw guide	83	169
Street	239	146+
Textile treating composition	252	8.6+
Textile weaving	139	45
Waste	384	181
Wrench combined	81	2
Ointments	424	
Oldham Coupling	464	102+
Oleandomycin	536	7.2+
Olefins	585	16+
Alcohols by hydration of	568	895+
Dismutation	585	364
Esters from	560	243+
Hydrohalogenation of	570	246+
Mineral oils	208	
Polymerized solid (See synthetic resin or natural rubber)		
Purification	585	800+
Synthesis	585	500+
Oleic Acid	260	413+
Oleomargarine (See Margarine)		
Oleoresin	530	204
Oligomers, Hydrocarbon	585	17+
Synthesis	585	502+
Oliver Hammer for Forging	72	445
Omnibuses (See Vehicle)		
One Shot Meter	60	632+
One-arm Bandit	D21	38
Onion		
Planters	111	910*
Onium Compounds	260	
Antimonium	556	64+
Arsonium	556	64+
Dyes containing	8	654
Organic acid amine addition	562	625+
Oxonium	568	557
Phenol amine addition	564	260
Primary aromatic amines	564	305+
Pyridinium	546	347
Quaternary ammonium	564	281+
Quinolinium	546	182
Sulfate esters	558	20+
Sulfonium	568	18+
Wetting agents	252	351+
Onyx	63	32
Pendants	63	13
Opacifiers	106	312
Open Work (See Grille)		
Building component	52	633+
Decoration	428	542.6
Opener and Opening Device		
Bag opening	493	309+
Closing combined	493	255+
Cutting closing combined	493	199+
Refolding combined	493	244+
Web forming cutting closing	493	199
X-art	493	963*
Bottle or jar		
Cap	215	295+
Stopper in combination	215	228
Stopper removal facilitated	215	295+
Can cutter	30	400+
Closure opener combined	7	152+
Combined	7	152+
Can or bottle	D 8	33
Closure metallic receptacle	220	260
Closure remover	81	3.7+
Combined	7	151+
Pliers combined	7	126+
Envelope	83	912
Cutters	30	233
Inkwell pen actuated	15	257.75
Oyster	17	74+
Paper		
Bag or envelope with tear strip	206	610
Carton or box	30	2
Tear strip or breaking means	206	601+
Parachute	244	149
Railway coupling knuckle	213	115+
Textile fiber	19	80R+
Wood box	408	53
Opening of Hydrocarbon Ring	585	940*
Opera Glass		
Holders	350	547+

	Class	Subclass
Optics	350	481
Operations Research Computerized	364	402
Operator		
Aircraft control	244	75R+
Automatic	74	2+
Cabinet component	312	319+
Fluid pressure	312	223
Chair		
Rocking	297	260
Swinging	272	85+
Clutch	192	82R+
Coin operated toy money box	446	8+
Control lever		
Hand operated	74	491+
Knee operated	74	515R+
Controlled guard mechanism	74	616
Dial	74	10R+
Dumping vehicle		
Sliding and tilting	298	14+
Tilting	298	19R+
Elevator		
Car brake	187	92+
Control mechanism	187	42+
Extension ladder	182	208
Lazy tong	182	158
Figure toy		
Figure support operated	446	360
Link operated	446	359+
Platform operated	446	352
Illumination		
Dirigible light supports	362	37+
Lantern globe	362	174+
Switches and valves	362	394
Insect traps	43	110
Multiple brake	188	105+
Pump operating means tires	152	419+
Railway		
Draft coupling	213	211+
Turntable	104	36+
Register	235	91R
Fare	235	44+
Platform operated	235	99R
Stove or furnace	126	169
Switch multiple circuit	200	17R+
Ophthalmic Lenses or Blanks	351	159+
Light filtering	351	163+
Multifocal	351	168+
Ophthalmometers	351	200+
Objective testing	351	205+
Subjective testing	351	222+
Ophthalmoscope	351	205+
Opium Alkaloids	546	44+
Optics & Optical	350	
Alignment testing	356	138+
Article molding	264	1.1+
Attenuator		
With photocell	250	227.11
Connecting means	350	96.2
Coupling means	350	96.15+
Delay line		
With photocell	250	227.11
Design	D16	100+
Device		
Photo process making	430	321
Electro-optic display	350	330+
Equipment design	D16	
Eye examining	351	
Fiber bundle	350	96.24
Fiber optics	358	901*
Fiber rods	350	96.1
Filter		
Compositions	252	582
Laminated	350	316
Frequency converter, quasi-optical	307	425
Illusion	272	8R+
Amusement railway	104	84
Thaumatrope	446	244
Zoetrope	352	101
Image projectors	353	
Instruments (See type of instrument)		
Design	D16	130+
Distance	33	707
Measuring & testing	356	
Measuring or testing instrument	D10	46+
Medical instrument, fixed	D24	1.1+
Medical instrument, portable	D24	8+
Motion pictures	352	
Sensing apparatus	435	808*
Surveyors instrument	D10	61+
Systems & elements	350	
Teaching	434	303
Thin film optical waveguide	350	96.12+
Transmission cable	350	96.23
Vision testing & correction	351	
Chemical analysis, apparatus	422	82.6
Fluorescence	422	82.7
Optode or Optrode		
Chemical analysis, apparatus	422	82.6
Fluorescence	422	82.7
Optometer	351	200+
Objective testing	351	205+
Subjective testing	351	222+
Orange Peel Bucket	37	182
Orchard		
Heating stoves	126	59.5
Mobile sprayer or duster	239	77+
Plant husbandry	47	
Design	D 8	1
Orchestrion		
Combined with other instrument	84	170
Rotating pin cylinder type	84	95.1
Order Apparatus		
Facsimile	358	400+
Planographic scriber	33	23.1+
Ordnance (See Ammunition; Firearm; Gun)	89	
Automatic	89	125
Barrels	89	14.5+
Bomb, flare & signal dropping	89	1.51+
Breech closures	89	17+
Cartridge feeding	89	33.1+
Control data	235	375
Explosion opened breech	89	4.5+
Firing devices	89	27.11+
Electric	89	28.5+
Fuse setters	89	6+
Loading	89	45+
Machine guns	89	9
Making	29	1.11
Measuring and testing	73	167
Mounts	89	37.1+
Pneumatic	89	7+
Recoilless gun	89	1.7+
Rocket launching	89	1.8+
Shields	89	36.1+
Sights	33	235+
Submarine	89	5
Ore Treatment	75	
Actinide series compound	423	249+
Apparatus	266	168+
Beneficiating ores	423	1+
Briquetting	75	746+
Comminutor	241	
Detector (See prospecting)		
Dressing classifying	209	
Organ and Organette		
Automatic wind organettes	84	92
Automatic wind organs	84	84+
Barrel	84	86
Chord organs	84	DIG. 22
Coupler		
Automatic organ	84	168
Pipe organ	84	340+
Reed organ	84	373
Design	D17	5
Electric		
Action of wind pipe organ	84	337
Couplers of wind pipe organ actions	84	341
Electropneumatic action of automatic organ	84	88
Electropneumatic action of wind pipe organs	84	338+
Electropneumatic swells of wind pipe organs	84	347
Generation of electric tones	84	600+
Piano combined with organ	84	172
Pipe organ nonautomatic	84	331+
Pipes	84	349+
Reed organ nonautomatic	84	351+
Reeds	84	363+
Trackers and sheets for automatic organs	84	148
Organic Compounds (See Carbon)	260	
Misc. chemical manufacture	156	DIG. 113
Nuclear fuel, use as	376	156
Nuclear fuel, use as	376	212
Nuclear fuel, use as	376	247
Nuclear fuel, use as	376	409
Nuclear moderator, use as	376	174
Nuclear moderator, use as	376	346
Nuclear moderator, use as	376	458
Organic compounds	532	
Organic compounds	536	
Organic compounds	544	
Organic compounds	548	
Preparation by wave energy	204	157.15+
Radio active compositions	252	625+
Medical	424	1.1
Organo Sol (See Sol)		
Organometallic Compounds	556	1+
Acetylacetonates	556	40+
Anthraquinones	552	209
Azo compounds	534	692+
Azoles	548	101+
Azomethines	556	32+
Diazines	544	225+
Diazo compounds	534	562
Explosives containing	149	23+
Higher fatty acid salts	260	414
Oxazines	544	64
Phosphorus containing	556	13+
Protein containing	530	400
Pyridine nucleus containing	546	2+
Radioactive	534	10+
Stabilization	556	2+
Thiazines	544	4
Thiocarbamates	556	38+
Triphenylmethanes	552	103
Oriental Knot Fabrics	139	400
Looms	139	4+
Orienter and Orienting (See Turner)		
Antenna	343	757+
Article dispenser	221	156+
Article reorienting device	414	754
Cleaning apparatus	134	43
Conveyor article on	198	373+
Conveyor guide	193	44
Cutter with	99	549
Earth boring tool parts	175	85
Furnace charger bucket	414	153
Tool driving or impacting device	173	39
Vehicle load body	414	383+
Well drills		
Bore deflection	175	61
Formation logging	73	151+
Inclinameter	33	365+
Whipstocks	166	117.5+
Orifice in Conduit	138	40+
Cabinets with	312	204
Orlon T M (polyacrylonitrile)	526	341
Ornaments and Ornamental Devices		
Bedpost	5	281
Block molds	425	412+
Building construction	52	311+
Candles	431	125
Chain	59	80+
Design	D11	13
Coating non-uniform	427	256+
Electroforming	204	8
Electroplating	204	18.1
Elements superposed	428	77+
Fountains	239	17+
Harness	54	76
Heating stove	126	219
Illuminated, X-art	362	806*
Figure	362	808*
Imitation candle	362	810*
Psychedelic light	362	811*
Star	362	807*
Terrestrial globe	362	809*
Jewelry	63	20
Design	D11	1+
Layer sectional	428	44+
Layer varying thickness	428	156+
Lighting & illumination	362	806*
Metal ornamenting	29	DIG. 3
Paper box	229	8
Photographic process	430	269+
Plant beds	47	33
Seasonal or religious	D11	121+
Shoe	2	245
Special occasion	428	7+
Stitched	112	439
Textile cloth	26	69R
Napping	26	30
Shearing	26	16
Vehicle body	428	31
Wall decoration	D11	131+
Orthicon Cathode Ray Tube	313	373+
Television system using	358	217+
Orthodontic Devices	433	2+
Implements	433	3+

	Class	Subclass
Orthopedics		
Ankle supports and braces	128	166
Skates with	280	11.36
Appliance	D24	64
Arch supports	36	71
Boot or shoe	128	581+
Pressure distribution testing	73	172
Shoe making	12	142N
Miscellaneous parts	12	146M
Shoe pads	36	71
Surgical	128	68+
Orthoquinones	552	291
Oscillation Circuit		
Generator	331	
Therapeutic treatment type	128	422
Oscillator	331	
Audio	331	
Coil electric	336	
Electronic	331	
Hartley type	331	170
Transistor	331	108R
Multi phase	331	45
Tuned circuit for	334	
Feed conveyer, oscillating-type	209	921*
Laser beam applications		
Logic gate active element	331	DIG. 3
Phase locked loop having local indicating or detecting means	331	DIG. 2
Tetrode	331	
Oscillographs (See Oscilloscope)		
Cathode ray tube circuits	315	1+
Cathode ray tube structure	313	364+
Design	D10	76+
Electrical quantity measurement	324	97
Cathode ray type	324	121R
Facsmile systems	358	296+
Photographic recorder	346	108+
Plural function recorder	346	45+
Steam engine indicator	346	3+
Oscilloscope (See Oscillograph)	D10	76
Cathode ray tube system	315	1+
Chemical analysis, apparatus	422	82.8
Expanded scale	324	131
Cathode ray	324	121R
Meter	324	97
Cathode ray type	324	121R
Television	358	242+
Tube structure	313	364+
Osmium		
Alloys	420	461
Hydrometallurgy	75	711+
Pyrometallurgy	75	631
Osmosis (See Desalting Seawater)		
Osones or Osazones	536	1.1+
Osteal Adjuster	128	69+
Otec, Ocean Thermal Energy Conversion	60	641.7
Otoscope	128	9
Otterboard, Trawl Net Type	43	9.7
Ottoman	297	462
Outboard Motor	440	53+
Container or package for	206	319
X-art collection	440	900*
Outdrives	440	900*
Outer Garment	2	115+
Outlet		
Bath basin fitting	4	195+
Compartment tub	4	208
Box		
Digest	33	DIG. 1
Electric conduit	174	50+
Electric connector	439	892+
Electric junction box	220	3.2+
Support	248	906*
Conduit wiring	439	207+
Support	248	27.1+
Cover or escutcheon plate	D 8	350+
Decanter	210	109+
Distillation vapor	196	136
Drinking fountain		
Catch basin	239	28+
Faucet combined	239	25+
Muffler	181	238
Nozzle	239	
Outlet plug	D13	137+
Pneumatic stacker tube	406	154+
Pressure control		
Fluid pressure brake	303	59+
Fluid pressure regulator	137	505+
Smoking device stem	131	229
Sprinkler pipe	239	266+
Stratifier	209	494
Ventilation		
Building	98	42.1+
Car	98	19+
Cowl	98	66.1+
Wall mounted electric conduit	174	49
Water closet valve		
Siphon	4	368+
Valve	4	378+
Water closet ventilation	4	218
Outriggers		
Awning type		
Multipart	160	78+
Rigid	160	83.1
Swinging	160	81+
Vehicle	280	763.1+
Crane	212	189
Outsoles	432	120+
Ovens and Accessories (See Heat)	432	120+
Coke	202	81+
Cooking	126	
Design, household	D 7	348+
Design, special use	D15	144.1
Distilling	202	
Drying	34	
Electric	219	391+
Lights	362	92
Overalls		
Hemer type	2	227+
Union type	2	79
Overcoat	2	85+
Overcoming Dead Center	74	36
Overflow		
Bath and basin fitting	4	198+
Conveyer art	198	954+
Decanter and filter	210	299+
Filling portable receptacle	141	115
Gas and liquid contact baffle	261	114.1
Textile machine	68	208
Trough	261	DIG. 44
Water closet		
Outlet valve	4	390+
Outlet valve float	4	395+
Siphon bowl	4	427+
Water control gate	405	101
Water heater	126	359
Receptor	126	383+
Overlaps	2	121
Overlead		
Automatic weighers	177	82
Fluid receptacle filling devices	141	115+
Relay		
Electric trips	335	21+
Thermal current trips	337	70
Thermal trips	337	356+
Release		
Comminution apparatus	241	32
Earthworking implements	172	261+
Bulldozer	172	816
Hydraulic control	172	260.5
Elastic couplings ships	114	217
Flexible shaft couplings	464	30+
Motor vehicle trains	180	14.5
Pitmans and connecting rods	74	584+
Planetary gearing	475	263+
Plows	172	261+
Snow plows	37	232+
Tools	81	467+
Torque responsive clutches	192	56R
Trailer couplings	280	449+
Stop	192	150
Spring wheels	152	18
Support movable or disengageable on impact or overload	248	900*
Overshoes		
Horse	168	1+
Design	D30	146+
Design	D30	146+
Mens	36	7.1 R+
Design	D 2	271+
Overthrow Preventer	235	131R
Overwinding Preventer		
Spring motor combined	185	43
Plural motors	185	13
Watch or clock key combined	81	467
Watches combined	368	209
Weight motor combined	185	35
Ox		
Shoe	168	5
Making	59	70
Yoke	54	77
Oxacillin	540	327
Oxadiazoles, 1,2, 3-	548	125
Oxadiazoles, 1,2, 4-	548	131+
Oxadiazoles, 1,2, 5-	548	125
Oxadiazoles, 1,3, 4-	548	143+
Oxalic Acid	562	597
Oxazines	544	63+
Bio-affecting & body treating composition	514	228.8+
Oxazoles	548	215+
Oxazoles, 1, 2-	548	240+
Oxazoles, 1, 3-	548	215+
Oxazolidones	548	225+
Oxidants		
Bound solid fuel	44	558
Oxidation (See Substance Produced)		
Absorbent regeneration	502	20+
Alcohols		
Acyclic ketone production	568	402
Aldehyde production	568	471+
Carboxylic acid production	562	418+
Aldehydes to produce acids	562	418+
Aldehydes to produce acids	562	531+
Bleaching (See bleaching)		
Carbon monoxide	423	415R
Compositions	252	186.1+
Detergents	252	95+
Compounds for	149	119
Dyeing	8	649
Oxidizable dyes	436	904*
Electrolytic	204	
Fermentative	435	
Glyceride oils	260	406
Purification by	260	423
Hydrocarbons		
Acyclic acid production	562	542+
Anthracene	552	208
Aromatic acid production	562	408+
Aromatic to acid anhydrides	549	231+
Electrolytic	204	80+
Electromagnetic	204	157.15+
Electrostatic	204	169
Mineral oil	208	3+
Nonaromatic mixtures	568	950+
Preparing acyclic aldehydes	568	469.9
Preparing acyclic carboxylic acids esters	560	241.1
Preparing acyclic carboxylic acids	562	512.2+
Preparing acyclic hydroxy ctg compounds	568	910.5
Preparing acyclic ketones	568	398.8
Preparing fats, fatty oils, ester-type waxes or higher fatty acids	260	398.6
Olefines to epoxy compounds	549	523+
Liquid purification	210	758+
Sewage treatment	210	601+
Metallurgy	75	
Metals	23	
Surface	148	284+
Nonmetals	23	
Resins natural	530	200+
Oxides		
Heat producing compositions	149	37+
Iron	423	632
Magnesium	423	635
Metal	423	579
Alkali	423	592
Alkali earth	423	583
Nitrogen	423	400+
Combustion control	60	900*
Electrostatic	204	179
Phosphorus	423	304
Sulfur	423	512R+
Titanium	423	608
Electrosynthesis	204	96+
Oxidized Hydrocarbons of Undetermined Structure	568	959
Oximes	564	253+
Acyclic	564	268
Alpha oxy or oxo	564	258
Aromatic	564	265+
Cyclohexanone	564	267
O-carbamoyl	564	255
O-esters	564	254+
O-ethers	564	256+
Preparation	564	259+
Oximeters	356	41
Ear attached	128	633
Oxindole	548	484+

	Class	Subclass
Oxirane	8	DIG. 8*
Oxolinic Acid, in Drug	514	291
Oxonium	568	557
Oxy Containing Carboxylic Acid Esters		
Acyclic	560	179*
Alicyclic	560	126
Aromatic	560	55*
Oxyacetylene Gas Torches	239	398*
Oxychloride	423	462
Cement	106	685*
Oxygen	423	579*
Blood oxygenators	261	DIG. 28
Electrolytic synthesis	204	129
Generative composition	252	186.1*
Liquefaction	62	8*
Mask	128	205.25
Rings	549	200*
Azo compound containing	534	751*
Oxazine	544	63*
Oxazole	548	215*
Sulfurized	549	200*
Tent	128	205.26
Tests for determining		
Biochemical oxygen demand, bod	436	62*
Chemical oxygen demand, cod	436	62*
Total oxygen demand, tod	436	62*
Oxyhalogenation of Hydrocarbons	570	224
Oxysulfate	106	683*
Oxytocin	530	315
Oyster		
Culture	119	4
Dredger	37	55
Opener	17	74*
Opening process	17	48
Scoop	37	119
Ozone	423	581
Electrostatic field or electrical discharge synthesis	204	176
Generators	422	186.7*
Food treatment	426	236
Liquid purification	210	760
Preliminary manufacture	210	192
Ozonides	549	430*
Ozonizer		
Electromagnetic wave energy or	422	186.7*
Gas & liquid contact apparatus	261	DIG. 42
Inhaler	128	202.25
Process	62	78
Refrigeration combined	62	264
Pacemaker	128	419P*
Pacifiers	606	234*
Design	D24	45
Pack		
Advancing and feeding sheets from	271	8.1*
Pack holders	271	145*
Animal		
Load attaching means	224	905*
Camera	354	174*
Firearm	42	88*
Forming by receiving sheets	271	278*
Jogger	271	221*
Metal foil formation	29	17.4*
Nuclear fuel components	376	434
Packet		
Clasping or holding devices	24	17R*
Inserting binding loops	227	77
Making and wrapping	53	206
Postal card type	229	92.8
Parachute	244	148
Saddle	54	37
Package	206	
Adhesive	206	813*
Automatic filling and weighing	177	52*
Blister	206	461*
Button eyelet or rivet	206	348
Chewing gum	206	800*
Coins	206	.8*
Card type	229	92.9
Paper wrapper	229	87.2
Cosmetic article	206	823*
Design	D 9	
Detergent containing	252	90*
Emergency packs	206	803*
Fastenings or ties	24	16R*
Filler for space	206	814*
Finger opening	206	815*
Fire kindling	44	541
First aid packs	206	803*
Flares	206	803*
Flexible closure, eg sliding desk top type	206	816*
Follower	206	817*
Land vehicle compartment	296	37.1*
Living fungi ferment containing	435	
Lubricant containing	252	10
Magnet	206	818*
Mail box clips or pockets	232	33
Making	53	
Material	206	819*
Medicinal content	206	828*
Nail and staple	206	338
Package and article carriers	224	
Sewing machine case	312	208
Plant	47	84*
Powder puff	206	823*
Recoil-type retainer	206	825*
Registers operated by	235	98R
Rubber band	206	805*
Rupture means	206	601*
Sausage shirred casing	206	802*
Separable, strip-like plural items	206	820*
Sheet material folding	270	39*
Special shape	206	822*
Stacking member	206	821*
Suction cup adjunct	206	829*
Suspension	206	806*
Tamper-proof	206	807*
Tear apertures for roll, strip, or sheet	206	824*
Textile yarn or cloth		
Laundering or cleaning methods	8	154
Liquid treating for cleaning	68	
Thread finishing	28	217*
Ties	24	16R*
Toilet article	206	823*
Towel, packaged	206	812*
Vacuum	206	829*
Water treating agent containing	252	176
Waterproof	206	811*
Wound strand	242	159*
Wrapper	229	87.1*
Gift wrap	229	87.19
Wrapper, packaging bag	D 9	305
X-type	206	809*
Zipper, ie receptacle securement	206	810*
Packaging Methods		
Automatic or triggered control	53	52*
Bags, wrappers, tubes	D 9	305
Baling	100	1*
Binding	100	1*
Cigar and cigarette making	131	283*
Closing packages	53	285*
Collar, cuff and bosom making combined	53	117
Containers	D 9	414*
Contents material treating	53	111R*
Depositing articles into receptacles	53	235*
Filling and closing portable receptacles	53	266R*
Foods	426	392*
In liquids	426	392*
Group forming into unit	53	147*
Needles and pins	227	25
Plug tobacco making combined	131	112*
Receptacle filling & closing	53	467*
Receptacle opening	53	381R*
Textile strands	28	289*
Wrapping machines	53	203*
Packer		
Well	166	179*
Closing part	166	141
Handling	166	373*
Preset	166	114
Preset conduit carried	166	116
With expanding anchor	166	118*
With outward pressure means	166	101
With passage control	166	142*
With pump or plunger	166	106
Packing Method (See Stack)		
Bags & wrappers	D 9	305
Cartridge	86	47
Cases and materials		
Design	D 9	
For cartridges	206	3
For chemicals	206	524.1*
For cigars and cigarettes	206	242*
For cycles	217	37*
For metal leaf	206	71
For photographic papers	206	455
Cigar bundling	131	107
Dispensing devices	222	143
Felting roll pack	28	125*
Closure with gasket or packing	220	378*
Foods	426	392*
Joints	277	
Bottle cap	215	341*
Closure	220	200*
Cup or flange type	277	212R
Dispenser outlet	222	512
Dispenser outlet	222	542
Pipe joint	285	335*
Prefabricated unit	277	35
Receptacle seam	220	681
Valve	251	356*
Materials		
For sensitive plates	206	454*
Molded separator sheets	D 9	456
Piston	277	
Ring making	29	888.7*
Portable receptacles		
Bags and sacks	53	570*
Cigarette	53	148*
Uniform density	141	71*
Receptacle filling & closing	53	467*
Sand founding molds	164	37*
Tobacco plug	131	112*
Tools	81	8.1
Weather strips	49	475*
Wrappers	229	87.1*
Packs		
Change for plates and films	354	276*
Photographic plate	354	276*
Pad		
Abrasive sheet holding	51	358*
Handled	51	392*
Absorbent	604	358
Animal hampering pads	119	108
Body	2	267*
Button covering	24	114
Cleaning material supply combined	401	261*
Closet seat	4	244*
Desk or typewriter	D19	99
Diaper	604	358
Electrically heated	219	528*
Foot	36	71
Furniture	248	188.8
Ground mat	5	420
Hand	2	20
Harness	54	65*
Design	D30	134*
Horseshoe	168	26*
Design	D30	147*
Modified shoe	168	12*
Hot pot holders	2	20
Hand manipulable	294	25
Handle type	16	116R*
Knitted base	66	190*
Lifters	294	27.1*
Of textile material	428	224*
Inking and copying	118	264*
Printing machine having	101	
Knee	2	24
Label pasting	156	
Ladder foot	182	108*
Lock		
Shackles	70	53
Mattress	5	500
Pedal	74	563
Receptor		
Catamenial and diaper	604	358*
Shoe	36	71
Heel cushioning	36	37
Skirt combined	2	215
Sleeping bag with pad	5	413
Stair	428	
Conforming to tread nose	52	179
Table	428	53*
Table, cover or casing for	428	68*
Table, scuff plate	248	346.1
Table, sectional layer for	428	44*
Truss	128	112.1*
Padded		
Bottle wrapper	229	91
Container with shock protection	206	521*
Crate	217	53
Paddle and Paddle Wheel	416	78*
Aircraft propulsion	244	70*
Aircraft sustension		
Heavier than air	244	4R*
Lighter than air	244	27*
Boat propulsion manual	440	21
Design	D12	306
Game apparatus	D21	48

	Class	Subclass
Pumps	417	436
Ship and boat propulsion	440	90+
Retractable blades	440	92+
Ship steering	114	147+
Ships	114	58
Water motors	416	78
Padlock	70	20+
Condition indicator combined		
Recorder	70	435
Register	70	437
Design	D 8	334+
Latch combined	292	
Design	D 8	334+
Pail (See Bucket; Receptacle)		
Milk	220	9.1
Making	413	69+
With strainer	210	464+
Scrub	15	264
Winding material applying	242	7.22
Method	242	7.2
Paint	106	
Anticorrosive	106	14.5+
Antifouling	106	15.5+
Artists box	206	1.7
Brushes	15	159R+
Design	D 4	
Material supply combined	401	268+
Drier	106	310
Luminous		
Inorganic	252	301.6 R
Organic	252	301.16
Radioactive	252	625+
Signs	40	542
Mill	241	
Mixer	366	605*
Painters equipment		
Artists boxes	206	1.7+
Brushes	15	159R+
Design	D 4	
Graining tool	D 8	
Roller type	D 4	122+
Easels	248	441.1+
Fabric stretching frames	160	374.1
Stencils (See stencil)		
Teaching	434	84
Removing	134	38
Removing-burning tool	D 8	29.1
Roller tray	D32	53.1
Rollers & trays for	D 4	122+
Scraper	D32	46+
Pajamas	2	83
Design	D 2	8+
Palladium (See Platinum)		
Alloys	420	463
Pallet (See Pawl)		
Bed clothing	5	482
Container with	206	386
Dental mixing slab	433	49
Hawk	294	3.5
Horological drive	368	131
Mold	425	253+
Concrete or ceramic type	425	253
Organ valve	84	368
Synthetic plastic industrial platform	108	901*
Made with deformable integral fastening elements	108	902*
Type for lift trucks	108	51.1+
Palmitic Acid	260	413+
Pamphlet		
Covering	412	4+
Distribution from aircraft	40	216
Pan (See Pot)		
Ash		
Boiler feed preheater combined	122	413
Furnace	110	166+
Stove	126	243+
Bed	4	450+
Boiler	122	394
In steam space	122	435+
With blowoff	122	386
Carbonless	503	200+
Closet bowl combined	4	429+
Closet bowl valve	4	442+
Cooking container	D 7	354+
Drip (See drip pan)		
Drying	34	237+
Housed or supported	34	192+
Dust	15	257.1+
Evaporating and concentrating		
Closed	159	22+
Combined open and closed	159	21
Open	159	32+
Land vehicle drip	296	38
Liquid fuel burner	431	331+
Lubricator drip catching	184	106
Mill	241	107+
Motor vehicle splash	180	69.1
Pan shaped metal bending dies	72	394+
Railway tender coal feed	105	235
Scale	177	262+
Stove drip	126	51
Street sweeper elevator	15	85
Water heating	126	373
Pancake		
Fryer	99	422+
Turner	294	7+
Pancreas Extracts	530	845
Medicine containing	514	3+
Pane, Window (See Panel)		
Fasteners	52	764+
Hermetically sealed	428	34
Laminated glass	428	426+
Parallel panes	52	304
Drier	52	171+
Resiliently spaced	52	398
Vented	52	304
Ventilated	98	96
Panel		
Bed	5	280
Board switchboards	361	331+
Telephone	335	108+
Building components (See block)	52	
Adhered tile	52	390+
Attached handle	52	125.2+
Corrugated component	52	795+
Dimpled	52	792
Edged laminated	52	783+
Edged laminated and separate	52	821+
Edged resilient	52	393
Edgewise connected	52	578+
Embossed	52	792
Hollow	52	785
Integral reinforced	52	630
Internal fastener received	52	787
Multicellular core	52	806+
Ornamental	52	311+
Partition	52	238.1+
Perforate sheet	52	794
Perforate sheet, edgeing separate	52	815
Sandwich type	52	785+
Shaft attached	52	474+
Shield	52	202+
Stonelike	52	596+
Sub-structure attached	52	506+
Casket sliding panel	27	15
Closure fastener operator	292	93
Decorative sectional layer	428	44+
Decorative sheet cover or casing	428	68+
Disc	428	64+
Edge lighted	362	31
Fasteners	24	573.2
Fences	256	24+
Panel element	256	73
Flexible	160	
For floor, wall, roof	D25	138+
Hangers	16	87R+
Heat exchanger	165	168+
Heating stove	126	64
Door transparent	126	200
Joints, readily disengageable	403	DIG. 1
Mirror with backing	52	786
Mounting for instrument	248	27.1+
Movable or removable closures	49	
Partitions &, flexible & portable	160	
Phonograph blanks	428	64+
Portable	160	351
Radiant heating wall	165	49
Railway passenger car		
Convertible open to closed	105	332+
End panel open car	105	347
Static mold form	249	189
Travelers	16	87R+
Wall panel, molding continuous	264	46.4+
Windshield	296	90
Sash convertible to screen	160	128
Panic Bar Latches	292	92+
With lock	70	92
Panification		
Processes	426	549+
Panoramic Cameras	354	94+
Pantographic Scribers	33	23.1+
Curved surface	33	22
Cutting machine for shaping	409	86+
Multiplane	33	24.1
Pantolactone	549	319
Pantothenic Acid	562	569
Pants	2	227+
Design	D 2	28+
Design, lingerie or undergarments		
Pantyhose	2	409+
Papaverine	546	149
Paper		
Article design	D 5	
Article making	493	
Computer controlled, monitored	364	471
Bag making	493	186+
Bag opening	493	309+
Bags	383	
Barrels	229	67
Binder device releasably engaging aperture or notch of sheet	402	
Blueprint	430	540
Bobbins and spools	242	118+
Box	229	100+
Gift wrapped	229	923
Box making	493	52+
Carbon	428	488.1+
Compositions	106	20+
Paper, design	D19	1+
Cartridge shells	86	11+
Clip or clamp fasteners	D19	65
Clips	24	455+
Coating	427	411+
Stripping or edging	427	284+
Collars	2	136
Combined into book	D19	26+
Cutter	D18	34
Cutter, machine-type	D15	127
Disc closure making	493	962*
Disinfecting or sterilizing	422	243+
Driers	34	148+
Processes	34	23+
Dyeing	8	
Electroprinting	204	2
Envelope making	493	186+
Envelopes	229	*
Fasteners	24	67R+
Making	29	13
Penetrating-type	24	901
Festoon making	493	957*
Flypaper holder	43	115
Flypaper package	206	447
Folding or plaiting	493	68+
Heat seal	493	394+
Scraps	100	914*
Tag applying	493	375+
Tube making	493	269+
Garland making	493	958*
Hanging	156	574
Design	D 5	
Interlocked sheets	493	390
Lined metal receptacle	220	460+
Making & fiber liberation	162	
Matchmaking	144	51
Medicated	424	414+
Moistener	134	122R+
Money sorting	209	534
Opening reinforcements	402	79
Other than in book	D19	33
Package or article carrier	224	906*
Parchmentized or linen finish	8	119
Photographic	430	270+
Photographic paper packages	206	455
Photoprinting	430	270+
Punch	D19	72
Punching	83	
Roll type dispenser packages	206	389+
With severing edge	225	39+
Self toning	430	559
Sheet dispensing packages	206	449+
With tearing edge	225	27+
Sheet manipulating devices		
Flipper, inserter, lifter	402	80R
Remover, transfer fork	402	80R
Transfer post	402	47
Sheet stock	428	
Shelf paper	D 5	
Shifting plate	29	270
Stationery	D19	
Strand twisting or twining	57	31+
Stripping photographic	430	259+
Tablet	D19	26
Tearing straight edge	225	91+

	Class	Subclass
Gauge	225	91+
Test papers	435	805*
Testing		
Bursting or rupture	73	838+
Carbon paper	73	14
Flexure	73	849+
Pulp freeness	73	63
Sheet material	73	159
Towel dispensing cabinets		
Sheet type	312	50+
Strip type	312	39+
With strip- tearing edge	225	
Towels	162	100+
Twine and strands	57	260+
Twisting and twining apparatus	57	31+
Methods	57	31+
Typewriter feeding	400	578+
Web winding machines and reels	242	55+
Design	D19	96+
Weights	16	1R+
Working and feeding		
Article manufacturing from sheet or web	493	
Associating or folding sheets	270	
Feeding or delivering sheets	271	
Sheet cutting and punching	83	
Wrappers	229	87.1+
Gift wrap	229	87.19
Wrapping	D 5	
Writing	D19	1+
Paperweight Design	D19	96+
Parachutes	244	142+
Amusement drop devices	272	6+
Balloon	244	32+
Drop bomb	102	387
Pyrotechnic device attached	102	354
Flare	102	337+
Rocket	102	348
Toy	446	49+
Paraffin		
Hydrocarbon	585	16+
Purification	585	800+
Synthesis	585	700+
Wax	208	20+
Treatment or recovery	208	24+
Paraldehyde (See Metaldehyde)		
Parallel Operation of Electric Meters	318	34+
Parametric & Parametrons	307	402
Amplifier, capacitor	330	7
Amplifier, saturable inductive reactor	330	8
Amplifier, solid element wave guide as reactor means	330	5
Frequency converter	307	424
Paraquinones	552	293+
Parasiticides	424	
Detergents containing	252	106+
Fertilizers containing	71	3
Paints containing	106	15.5+
Water purifying agents containing	252	175
Parasol (See Umbrella)	135	20R+
Parathion	558	193
Composition bio affecting	514	132
Paravane		
Torpedo and mine protection	114	240A
Towed	114	242+
Parchmentizing	8	118+
Laminating combined	156	76
Paregoric		
Medicine containing	514	282
Parer (See Peeler)		
Vegetable and fruit	99	588+
Design	D 7	693
Parimutuel Systems	235	
Parison	428	542.8
Parking		
Garages	414	227+
Electric signal systems	340	932.2
Land vehicle	280	761
Lights	362	61+
Meters	194	
Design	D10	42
Design, casing	D10	42
Timer elements	368	90+
With barrier	194	900
Motor vehicle		
Driven laterally	180	199+
Programmable, steerable wheels	180	204
Theaters	52	6+
Parliamentary Procedure, Teaching	434	234
Parlor Organs		
Combined with pianos	84	172
Parquetry	52	315
Keyed blocks	52	589
Sectional layer	428	44+
Wood	428	50
Tile type	52	384
Adhesively held	52	390
Wood grain pattern	52	313
Parrels	114	96
Particles	428	402+
Fuel	44	500+
Metal	75	255+
Micro capsules	428	402.2
Parting Compound	106	38.22+
Static mold coated with	249	115
Utilization glass making	65	24+
Partition		
Bathtub	4	514
Bed	5	513
Building or car		
Freight carrier load brace	410	129+
Movable type	52	243.1+
Safety transaction and display	109	10
Sleeping car	105	323
Stock car	119	11+
Trapping bank type	109	5
Fences	256	
Flexible	160	
Luggage	190	109+
Mattress	5	480
Movable or removable closures	49	
Panels &, flexible & portable	160	
Portable	160	351
Purse	150	112
Rack	211	184
Receptacle	220	529+
Clerical implements with dividers	206	371
Receptacle file	220	529+
Party Favor	D11	131
Party Line	379	167+
Call system	379	179+
Revertive	379	179
Pass or Identification Card Case	40	642
Passe-partout Picture Frame	40	152
Passenger		
Aeronautics		
Accommodations	244	118.5
Loading or discharging	244	137.2
Safety lowering compartment	244	140+
Railway		
Car	105	329.1+
Car framing and structure	105	397+
Jumper amusement park	104	82
Station signals	246	209
Terminals and stations	104	28
Transfer moving train	104	20+
Recorder	346	
Seat depression	346	40
Passivate	148	253+
Pasta	D 1	126
Paste	429	209
Mixtures and pasted plates for storage batteries	429	209+
Supporting grids for storage batteries	429	233+
Tube		
Collapsible wall	222	92+
Dispenser-holders	248	108
Supports for	248	108+
Pasteboard	D19	1+
Pastery		
Brushes	D 4	
Inedible decoration	D11	184
Pasteurizing	426	521+
Apparatus	99	467
Filled receptacle type	99	359+
Heating and cooling	165	66
Electrolytic apparatus	204	194+
Fermentation combined	435	
Pasting		
Coating machines	118	
Collar cuff and bosom making	223	3
Envelope making	493	220+
Paper hanging and label pasting	156	
Pastry and Confection Making	426	
Brush	D 4	
Cake and pastry making	426	
Coating apparatus	118	13+
Confection making	426	660+
Packaging for pastery wedge	206	551
Patch and Patching (See Repairing)		
Bullet	86	42
Mechanical repairing	29	402.1+
Pipe repairing	138	98+
Shirt	2	122
Tire	152	367+
Valve stem	152	430
Tool for tire repairing	81	15.5+
Wire screen	245	2
Patent Leather	428	473
Plural coating	427	412
Shoe upper	36	45
Patient Carriers		
Ambulances	296	19
Wheeled stretchers	296	20
Body supported	224	158+
Invalid lift and transfer	5	81R+
Field stretcher	5	82R+
Turners	5	61
Patient Monitoring Computerized	364	413.2+
Pattern	33	12+
Brassiere	450	92
Corset or girdle	450	156
Fluid flow within nuclear reactor	376	373
Footwear	33	5
Gloves	2	169
Metal founding	164	235+
Metal rolling	72	
Plates for metal founding	164	241+
Sprinkler	239	97+
Textile warp	28	184
Pattern Control (See Copying; Facsimile, Templet)		
Braiding machine	87	14+
Calculator	235	419+
Electric lamp system		
Current or voltage	315	292
Plural load systems	315	316
Electric switch	200	46
Embroidering machine	112	84+
Expansible chamber motor	91	37
Facsimile signal generated by stylus	358	478+
Synchronization	358	424
Knitting machine	66	231+
Loom	139	
Metalworking machine		
Can making	413	27+
Gear making	409	1+
Milling	409	79+
Patterns	409	125+
Planing	409	289+
Punch selector	234	59+
Rolling	72	6
Spinning	72	81
Tracers	409	126
Turning	82	
Type casting	199	
Musical instrument	84	600+
Printing machine	101	93+
Punch machine		
Gang punch	83	76.1+
Punch selector	234	59+
Special sewing machine	112	121.11+
Spray with movable deflector	239	232
Sprayer with cam track	239	236+
Typesetting machine	276	13
Typewriter	400	61+
Valve actuator	251	3
Welding	228	7
Woodworking machine		
Coopering	147	27
Cutting	144	236
Sawing	83	789
Shaping	144	137+
Turning	142	
Patty Molds, Briquetting Mant	17	32
Pavement (See Roads)	404	17+
Apparatus & processes for making	404	83+
Static mold	249	2+
Machinery for making	404	83+
Materials for forming		
Bituminous	106	273.1+
Concrete	106	638+
Process for making	404	72+
Street crossing	238	9
Pawl (See Ratchet)	74	575+
Actuated (See device actuated)		
Bolt or nut to substructure lock		
Locking pawl, bolt or nut carried	411	141
Movable pawl	411	145+
Bolt or nut carried	411	114+
Used with side lock	411	128
Ratchet combined	411	89

	Class	Subclass
Pawl carried by washer	411	138
Pawl carried movably	411	145*
Resilient pawl with side lock	411	125*
Bolt to nut lock and ratchet	411	326
Used with jam nut	411	227*
Paying Devices	114	224
Pay check or envelope with statement of deductions	282	DIG. 1
Peach Stoner	30	113.1*
Peanut	426	632*
Butter	426	633
Oil	260	398*
Pearl Button Making	79	6*
Pearl Essence	544	276
Peat	44	490*
Carbonizing	201	25
Excavator	37	3
Fertilizers from	71	24
Mineral oil from	208	400*
Peavy	294	17
Pebble Mill	241	170*
Pectin	536	2
Fermentative production	435	275
Jellies containing	426	577*
Pedal	74	560*
Clavier	84	DIG. 25
Closure actuator	49	263*
Crank	74	594.4*
Bearing	384	429*
Bearing antifriction	384	458
Combined	74	594.1*
Design	D12	125
Hand control combined	74	481
Link and lever system control	74	512*
Music keyboard		
Auxiliary	84	426
Chord player	84	444
Piano	84	229*
Automatic	84	72*
Reed organ	84	353
Key action	84	366
Wind control	84	357*
Valve actuator	251	295
Pedestal		
Bearing support	384	440
Spring type	248	162.1
Vertically adjustable	248	161*
Horizontal planar surface	108	88
Supporting	108	150
Railway surface track	238	109*
Stand supporting	248	158*
Extension	108	88
Pedicure Implements	D28	56
Pedometers (See Velocipedes)	235	105
Boat	440	21*
Peeler or Parer (See Cutter; Stripper)		
Corer combined	99	542*
Corer segmenter combined	99	545
Food	99	588
Fruit & vegetable	99	588*
Design	D 7	693
Osier	144	207
Rossing bark	144	208R
Slicer combined	99	592
Corer combined	99	543
Wire stripper	81	9.4*
Peeling		
Bark	144	208R
Bark branch	144	207
Fruit and vegetable	99	584*
Peen and Peening	72	76
Shot blasting	72	53
Thread texturizer	28	277
Peepholes	220	662*
Door mounted	49	171
Stove	126	200
Drying apparatus (See notes to)	34	88
Measuring sight glass plate type	73	334
Shield mounted	109	58.5
Peg (See Pin)		
Cutters	12	47.1
Implements	12	104.5
Cutting and driving	227	93*
Indicators	116	325*
Receivers lasts	12	140
Sole fastening means	36	24
String fastener musical	84	304*
Tally boards	235	90
Tent	135	118
Violin	84	304*
Peg-board Type Article Supports	248	216.1*
Pelican Hook	294	82.24*
Pellet (See Pills)		
Depositors	604	57*
Design	D 1	
Medicinal	D28	1*
Hay pellet makers in general	100	
Hypodermic injectors	604	187*
Machine	425	222
Process for food	426	512*
Receptacles for pocket	206	528*
Pellet	D22	116
Pellicles for Optical Instruments	350	171*
Peltier Effect (See Thermocouple)		
Pelts	69	22
Carroting	8	112
Chemical or fluid treatment	8	94.14
Cleaning elements made of	15	235
Cutting	83	
Dyeing	8	404*
Fiber liberation from	19	2*
Shearing machines	26	15R*
Stretching frames	38	19*
Treatment	69	23*
Pen		
Advertizing on	40	905*
Animal	119	20
Design	D30	108*
Box for	206	371
Caps	401	243*
Cleaners	15	423
Desig	D19	98
Extractors	29	808
Facsimile	358	296*
Facsimile design	D19	41*
Fountain (See fountain pen)	401	
Filling devices	141	21*
Tattooing	81	9.22
Holder (See penholders)	15	435*
Design	D19	81*
Inkstand combined	211	69.2*
Light, photoelectric		
With light conductor	250	227.12
Pill carrier	206	537
Play	256	25
With bottom	5	99.1
Points (See penpoints)	15	435*
Rack	211	69.1*
Design	D19	81*
Ruling	401	221
Adjustable gap	401	256*
Adjustable gap fountain	401	233
Type flashlight	362	118
Penamecillin	540	342
Pencil	401	49*
Advertizing on	40	905*
Book cover combined	281	30
Box or case	D 3	30.1*
Box sectioned	206	371
Calculator combined	235	64
Calendar combined	40	335
Clip	D19	56
Compositions	106	19
Cosmetic eg lipstick or eyebrow	401	49*
Shaped	132	320
Indicia carrying	40	334*
Calendar	40	335
Mechanical	401	49*
Package	206	214
Pocket fastener	24	10R*
Design	D19	56*
Rack	211	69.1*
Sharpeners (See pencil sharpener)	30	451*
Electric	144	28.1*
Pencil combined	401	50*
Type electronic tubes	313	
Wood making	144	28
Pencil Sharpener	D19	73*
Implement	30	451*
Blade	30	165*
Debris receiver combined	30	453*
Eraser combined	15	105.53
Pencil combined	401	50*
Tool combined	7	160*
Machine	144	
Edge bevelling	144	28.2
Hand manipulable	144	28.11
Pendant		
Earrings	63	13
Jewelry	D11	79*
Watch pendant gearing	368	190*
Watchcase	368	301*
Watchcase making	29	179
Pendulum		
Clock	368	134*
Design	D10	130
Electric	368	165*
Escapement	368	134*
Facsimile synchronization using	358	415
Level and plumb	33	353*
Bubble combined	33	353
Lubricator		
Force feed follower	184	44
Force feed pump	184	30
Gravity feed reciprocating valve	184	78
Gravity feed rotatable valve	184	73
Mill	241	129*
Operated changeable exhibitor	40	485
Scale	177	216*
Testing		
Dynamometer	73	862.38
Tensile stress	73	836
Tide or wave motor	60	497*
Penetrating (See Punch; Puncturing)		
Nailing and stapling	227	
Nozzles	239	271
Perforating drilling	83	
Pole climbers	182	221
Printing by	101	3.1*
Sorting	209	688*
Testing by	73	81*
Typewriter	400	135*
Penetration Resistant Stock	428	911*
Penetrometers	73	59
Penholders	15	435*
Desk type for drafting	206	371
Indicia carrying	40	334*
Calendar	40	335
Picture combined	40	334*
Penicillamine	562	558
Penicillin F	540	314
Penicillin G	540	342
Penicillin G, in Drug	514	199
Penicillin K	540	314
Penicillin N	540	335
Penicillin O	540	314
Penicillin S	540	314
Penicillin V	540	341
Penicillin X	540	342
Penicillins	540	304*
By fermentation	435	43
Medicines containing	514	192*
Penmanship Instruction	434	162*
Pennant	116	173*
Penpoints	15	435*
Cleaner	15	423
Extractors or inserters	29	808
Ink retainer attached	401	252*
Ink retainer integral	401	221
Ruling	401	256*
Reservoir	401	233
Stylus ink retaining	401	292
Wiper	15	423
Pentaerythritol	568	853
Nitrated compositions	149	93
Pentaerythritol Tetranitrate	558	485
Explosives containing	149	93
Pentagrid Heptode Converter	313	300
Pentanedial	568	853
Pentode		
Amplifier	313	300
Cutoff	313	300*
Diode	313	298
With two cathodes	313	5
Diode triode	313	298
Tube structure	313	297*
Video	313	300
Pepper		
Design, shaker or mill	D 7	591*
Hand mill	241	168*
Shaker	222	142.1*
Peptide Synthesis	530	333
Peptides	530	300
Production by fermentation	435	68.1*
Including recombinant dna technique	435	69.1*
Including tissue culture use	435	70.1*
Per Acids	562	1*
Electrolytic production	204	82*
Perambulator (See Baby Carriage)	280	47.38*
Convertible to walker	280	7.1*
Springs	267	5
Perborate Esters	560	305

	Class	Subclass
Perborates	423	
Electrolytic production	204	85
Perbunan T M (See Synthetic Resin or Natural Rubber)		
Percale	139	426R
Percarbonates	423	419R
Percarboxylate Esters	560	302
Perch for Fowl	119	24*
Design	D30	119*
Perchlorates	423	476
Compositions		
Chemical agent type	252	186.1*
Detergent type	252	95*
Explosive	149	42
Explosive	149	75*
Percolator Beverage	99	307*
Electrically heated	219	438*
Stand combined	219	429*
Pitcher type	222	
Pumps	417	208*
Strainer	210	473*
Top transparent	220	377.1
Percussion		
Electric weld	219	95*
Musical instruments	D17	22*
Percussive		
Appliance kinestherapy	128	54*
Fuses	102	272*
Signs	40	579
Perhexiline, in Drug	514	179
Perforating (See Penetrating; Punch)		
By chemical dissolution	156	644*
Devices		
Cigars	131	253*
Design	D19	72*
Earthenware multitubular pipe	425	290*
Electric heater	219	229*
Fountain pen combined	81	9.22
Glass	65	166
Inker combined, eg tattooer	81	9.22
Plastic block expressing and	425	290*
Sheets or bars	83	
Wall tubing in situ	166	55
With glass mfg means	65	166
Electric discharge	219	384
Recorder	346	153.1
Handling perforated article	414	908*
Metal	83	
Billet piercing	72	345
Expanded	29	6.1
Multiperforated making	29	6.1*
Perforated devices		
Control members (See type)		
Cards	235	487
Musical instrument	84	161*
Tape	178	112
Typewriter tape	400	73*
Drive device for tool	173	90*
Recording printing or typing		
Printing	101	3.1*
Recorder	346	78*
Telegraph code recorder	178	92
Typewriter	400	80*
Telegraph code tape		
By telegraph signals	178	70R
Selective, by keyboard	234	
Tobacco products	131	253*
With electric spark or arc	219	384
Perfume Compositions	512	
Design	D28	5*
Encapsulated	512	4
Essential oils	512	5
Fixative for	512	2
Garment hanger combined	223	86
Head coverings with therapeutic device, medicament or perfume	2	171.2
Perfumed jewelry	63	DIG. 2
Preserver, stabilizer for	512	2
Solids, gels and shaped bodies	512	4
Perhalate Esters	560	306
Perhydrazonate Esters	560	311
Perhypohalite Esters	560	300
Periodine	544	249
In drug	514	269
Periodic Switch		
Electric circuit makers & breakers	200	19R*
Electromagnetic	335	87*
Electric discharge device supply control	315	209R*
Periscopes	350	540*
Compound lens system	350	541*
Submarine combined	114	340
View simulation	434	26
Perlite	501	28
Digest	106	DIG. 2
Permanent Magnet		
Alloy	420	
Permanent Press		
Chemically modified fiber	8	115.51
Coated	427	393.2*
Compositions	252	8.6*
Permanent Wave Machine for Hair	D28	11
Permeability Tuned Transformer	336	130
Permutation		
Locks		
Combination	70	315*
Key	70	382*
Key bitting	70	411
Switch combined	200	42.1*
Switch	200	42.1*
Typewriter	400	100*
Valves	137	269
Permutit T M	423	328
Peroxides (See Oxides)		
Alkali metal	423	582
Bleaching with	8	101*
Electrolytic coating with	204	57
Electrolytic synthesis	204	83*
Electrostatic field or electrical discharge	204	175
Heat producing compositions	149	37*
Hydrogen	423	584*
Organic	568	558*
Acids or salts	562	1*
Oxidizing	252	186.22*
Peroxynitrate Esters	560	304
Perspective Plotters	33	432*
Persulfonate Esters	560	318
Persulphides (See Polysulfide)		
Perthioborate Esters	560	305
Perthiocarboxylate Esters	560	302
Pessaries	128	834*
Pesticides (See Vermin Destroying)	D22	120
Pestle	241	291
Grain hulling	99	600*
Mortar & pestle	241	199*
Petrolatum	208	20*
Treatment or recovery	208	24*
Petroleum	208	
Emulsion breaking	252	319*
Fuels	44	
Mineral oil only	208	15*
Fuels containing	44	
Lubricants	252	9*
Mineral oil only	208	18*
Production		
From tunnels	299	2
Thermal or solvent eg secondary recovery	166	
Wells and related processes	166	
Receptacles and storage with explosion preventing devices (See explosion control)		
Sulfonates	562	33
Petrothene T M (polyethylene)	526	352
Pew	D 6	334*
PH Electrode or PH Sensor		
Chemical analysis, apparatus	422	82.4
PH Measurements Electrolytic	324	438
Phantom Circuit		
With loading coil	178	45
Pharmaceutical Product	D28	1*
Pharyngoscopes	128	10*
Phase		
Changer		
Same current in input & output	323	212
Using controlled electronic tubes	328	24
Control electrical	323	212
Conversion, electrical	363	148*
Indication electrical	324	83R*
Measuring and indicating	324	83R*
Meters	324	83R*
Phase inverter amplifiers		
Balanced to unbalanced coupling	330	116
Transistor amplifiers	330	301
Unbalanced to balanced coupling	330	117
Phase locked loop having lock indicating or detecting means	331	DIG. 2
Phase locked loop in demodulator circuit	329	325
Regulators for alternating current generators	322	20*
Shift keying	375	52
Shifter		
Electronic tube type	328	155
Shifting and power factor control	323	205
Electronic tube circuit having factor control	315	247
Electronic tube circuit having shifting	315	194*
Meter adjustment	324	138
Wave transmission type	333	138*
Phenacetin	564	223
Phenanthraquinone	552	292*
Phenanthrene Purification (See Aromatic Hydrocarbon)	585	800*
Phenanthridine	546	108
Phenanthroline	546	88*
Phenates (See Phenols)	568	716*
Phenazines	544	347*
Phenethicillin	540	341
Phenetidine	564	443
Phenobarbital	544	305
Phenolphthalein	549	308
Phenols (See Naphthols)	568	716*
Alkylation	568	780*
Amino	564	443*
Addition salts	564	280
Sulfo	562	58
Carboxylic acid esters	560	67*
Monoazo compounds	534	660*
Halo	568	774*
Mineral oil containing	208	2
Nitro	568	706*
Explosive compositions	149	55*
Explosive compositions	149	68
Explosive compositions	149	80
Explosive compositions	149	99
Explosive compositions	149	103
Explosive compositions	149	105*
Polymers (See synthetic resin or natural rubber)		
Sulfo acids	562	74
Phenones	568	335
Phenoplast (See Synthetic Resin or Natural Rubber)		
Phenothiazines	544	35*
Phenoxazines	544	102*
Phenoxy Resin (See Synthetic Resin or Natural Rubber)		
Phenylarsonic Acid	556	73
Phenylazonaphthyl	534	839*
Heavy metal containing	534	713*
Phenylazonaphthylazonaphthyl	534	832*
Phenylazophenyl	534	843*
Phenylazophenylazonaphthyl	534	832*
Phenyldimethylpyrazolone	544	356*
Phenylene		
Diamin	564	305
Phenylephrine, in Drug	514	653
Phenylglycine	562	443
Indole preparation from	548	489
Phenylhydrazine	564	310
Phenylquinolin	546	173
Carboxylic acid	546	170
Phenyltoloxamine, in Drug	514	651
Phenylurethane	560	75
Phloroglucin	568	763*
Phones		
Sound power	381	177*
Phonograph	369	
Automatic disk changer	369	178*
Cabinets	312	8*
Check operated switch	194	239
Coin controlled	194	
Design	D14	173
Design	D14	199*
Electrical reproducing or recording	369	128*
Figure toy combined	446	297*
Illuminator	362	87
Indexing devices	369	30
Magnetic	360	86
Motion picture apparatus combined	352	32*
Musical instrument combined		
Automatic musical instrument	84	4*
Comb organ	84	100
Electric tone generation eg organ	84	639
Needle	369	173
Photographic	369	125
Radio combined	369	6
Reciprocating tone arm motions	74	28
Record and composition		
Cabinets for	312	8*

	Class	Subclass
Changer	369	178
Composition for	106	37
Cylinder holder or case	206	
Disc blank	428	64*
Holder or case	206	309*
Design holder	D 6	407
Envelope	229	68R*
Jacket	493	946*
Magnetic	360	131*
Molding apparatus	425	406*
Molding processes	264	106*
Packages for	206	307*
Photographic	369	284*
Portable cases	206	314*
Racks for	211	40
Sound on film	369	284*
Structure	428	64*
Synthetic resin or natural rubber containing	523	174
Turntable	369	264*
With picture	352	26
With sound groove	369	272*
Sound on film	369	125*
Television combined	358	189
Turntable type	369	264*
Stop mechanism	369	268*
Phosgene	562	847
Phosphatase	435	21*
Phosphate Cement	106	690*
Phosphates		
Detergents containing	252	89.1*
Organo-phosphates	252	174.16
Electrolytic synthesis	204	90
Esters	558	70*
Cellulose	536	62
Phosphorus ester group, formation of	558	89*
Fertilizers containing	71	33*
Froth flotation	209	902*
Inorganic	423	
Phosphatides	260	403
Phosphatize	148	253*
Phosphinic Acids	562	8*
Phosphonic Acids	562	8*
Phosphonium	568	9
Phosphorescent (See Fluorescent)		
Applications and devices	250	458.1
Coating processes	427	157*
Compositions		
Inorganic	252	301.6 R
Organic	252	301.16
Radioactive	252	625
Phosphoric Acid (See Phosphates)	423	316
Phosphorus	423	322
Compounds inorganic	23	
Wave energy preparation	204	157.45
Compounds organic	568	8
Heavy metal	556	13*
Wave energy preparation	204	157.73
Explosive or thermic	149	29*
Composition containing	149	29*
X-art collection	436	103*
Photocell		
Angle measuring or axial alignment	356	152
Burner	431	79
Digest, automatic temperature & humidity regulation	236	DIG. 15
Electric lamp	315	149*
Electronic tube	250	200*
Gas tube	315	149*
Gearing	74	
Headlights	315	83
Mixing of fluids	137	93*
Photographic fluid treating apparatus control	354	298
Projection printing & copying	355	41
Illumination system or detail	355	68
Radiant energy applications	250	200*
Range or height finding with light detector	356	4*
Relay	361	160*
Repeater, telegraphy	178	70P
Signal	340	600*
Stop mechanism	192	116.5*
Limit stop	192	142A
Telemetering with photocell sensor	340	870.29
Tracer for	409	125*
TV picture signal generator	358	212
Velocity	356	28*
Photochromic Devices	358	902*
Means to alter light transmission	350	353
Photochromic Glass Compositions	501	13
Photocomposition	354	
Display control	340	711*
Photoconductive	355	
Compositions	430	56*
Electrophotographic copier element	355	211*
Fatigue treatment	355	211*
Preconditioning	355	211*
Residual charge elimination	355	211*
Resistors	338	15*
Photocopying	355	200*
Electrophotographic copier	355	200*
Equipment design	D18	36*
Fiber rods used in	355	1
Multiple color electric	355	326*
Photoduplication	355	
Electrophotographic copier	355	200*
Photoelectric Analysis Apparatus	422	82.9
Photoelectric Cell	D13	165
Applications	136	291*
Camera		
Exposure control system	354	410*
Focusing system	354	402*
Cathode ray tube		
Circuit controlled by	315	10*
With photo sensitive electrode	313	365*
Circuits	136	293*
Circuits miscellaneous	250	206*
Control of electron tube circuit	315	149*
Controlled enlarger	355	41
For color film	355	38
Light control	355	68
Controlled switch	361	173*
Copper oxide	136	265*
Analogous rectifiers	357	30
Electronic type	313	523*
Generators, solar cells	136	243*
Light sensitive devices	250	211R*
Light sensitive semiconductor devices	357	30
Mechanical processes of making Semiconductor type	437	
Music tone generator using	84	639
Resistive type	338	15*
Signal in electron tube circuit controlled by	315	134
Signal isolator	250	551
Space-satellite applications	136	292*
Stereoplotters	250	558*
Telegraphophone eg phonographs using	369	100*
Television system using	358	209
Testing, calibrating, treating	136	290*
Tubes, electronic type	313	523*
Photoelectric Panels	136	243
Photoelectric System	250	200*
Counting articles	377	6
Drinking fountain controlled	239	24
Electric motor controlled	318	480
Fault detector	356	237*
Foul line detector	340	556*
Garage door controlled	49	197*
Instruments	33	DIG. 3
Safety stop mechanism	192	129A*
Street lighting controlled	315	149*
Photoengraving		
Etching machine	134	
Printing plates and processes		
Planographic	101	453*
Relief or intaglio	101	401.1*
Stencil type	101	128.21
Processes	430	269*
Chemical etching	156	654*
Electrolytic	204	3
Photoenlargers	355	18*
Photoetching Processes		
Multicolor printing surface making	430	301
Relief or intaglio	430	306*
Photoflash		
Combustion type	431	357*
Bulb	431	358*
Synchronization with shutter	354	129*
Testing	73	5
Photoflood Lamp	313	315*
Photogrammetry		
Aerial cameras	354	65*
Drawing maps from photographs	33	20.4*
Photography & Photographic (See Radiation Imagery)	354	
Background	354	291
Calculators	235	64.7
Camera	354	
Automatic exposure control	354	410*
Automatic focusing	354	400*
Camera case	D 3	33
Photographic recorder	346	107R*
Seismic cameras	346	107SC
Supports	354	292
Carriers for photographic goods	224	908*
Cartridge or film pack	430	496*
Cassette	242	71*
Cassettes, X-ray	378	182*
Change bags	354	308*
Auxiliary plate magazine	354	282
With developing means	354	297*
Chemistry, processes and materials	430	
Screens	430	6*
Cinematography	D16	
Color	430	
Cameras	354	100*
Facsimile previewers	358	76
Films	430	541*
Filter	350	311
Chemically defined	430	4
Combined with camera	354	100*
Motion picture	352	66
Processes	430	357*
Screens	350	322
Chemically defined	430	7
Shade measuring & testing	356	404
Unpatterned filter	350	311*
Contour photography, chemical	156	58
Copying and photostating	355	
Filters	350	311*
Projectors	355	18*
Daguerreotype	354	2*
Depth illusion		
Motion picture appartus	352	86
Motion picture process	352	38
Photographic process	352	86
Design	D16	
Developing and fixing apparatus	354	297*
Equipment design	D16	246*
Tanks	354	331
Developing and fixing composition	430	468*
Developer	430	464*
Having preservative	430	490
Fixing bath	430	455
Direction of force indicator	33	314
Electric	354	3
Apparatus	355	200*
Developing apparatus	118	644*
Developing compositions	430	105*
Developing methods	430	31*
Methods	430	31*
Plate charging	361	225*
Sensitizing compositions	430	60*
Sensitizing elements	430	31
Electrophotographic copier	355	200*
Equipment case	D 3	33
Exposure identification	354	105*
Eye	354	62
Testing instruments	351	206
Films or plates	430	490*
Acetate recovery from	536	78
Cartridge	430	471
Coating		
Apparatus	118	
Processes	430	935*
With structure	354	275*
Container for undeveloped film	206	455*
Digest, drying & gas or vapor contact	34	
Holders	354	276*
Nitrate recovery from	536	40
Splicer	D 8	70.1
Transparency	356	443*
Wipers	15	100
X ray holders	378	167
Finished photograph	428	195
Flash		
Bulb	431	357*
Flash lamp	D16	239*
Flash synchronizers	354	129*
Lanterns eg safelights	362	803*
Lens	D16	134*
Light meter	D16	238
Lights	362	3*
In enlarger	355	67*
Lamp supply circuit	315	
Shutter controlled	354	129*
Shutter operator controlled	354	129*

	Class	Subclass
Magazine camera	354	174*
Manipulative processing	354	
Metal recovery from photographic material		
Hydrometallurgy	75	713
Pyrometallurgy	75	635
Combined with hydrometallurgy	75	417
Models	354	292
Motion picture	352	
Optics	354	
Packaging optical or photographic objects	206	316.1*
Assemblage or kit	206	578
Photochemical etching	430	299*
Photoengraving plates		
Chemical etching	156	654*
Electromechanical etching	358	299
Photoflash	354	129*
Photograph		
Corner mount	493	952*
Mapping & aerial rectifying	353	5*
Operating device	235	91C
Relief modeling	156	59
Viewer	D16	221*
Photoplate carriers	294	137*
Picture frame	40	152*
Design	D 6	300*
Playing cards	273	292*
Design	D21	42*
Print		
Dryers	34	143*
Washer	354	297*
Printer		
Enlarging apparatus	355	18*
Projection	355	18*
Printing	355	
Processing, manipulative	354	
Projector	D16	221*
Range finder	D16	220
Recorder	346	107R*
Recording bank deposits	346	22
Reproduction equipment	D18	36*
Retouching	354	348*
Safe lamp or light	362	803*
Screen	D16	241
Sequential stations for cleaning & liquid contact	134	122P
With work transfer or fluid applying devices	134	64P
Sound recording or reproducing	369	125*
Sound recording record	369	284*
Spectroscopy	356	302
Stands		
Retouching	354	349
Stereoscopic camera	354	112*
Viewer	350	133
Studios	354	290
Synchronizing flash with shutter	354	129
Telegraph recorder	178	15
Code	178	90
Telescope, microscope or periscope with photographic means	350	502
Television	358	345*
Receiver	358	244
Color	358	332*
Transparency viewer	40	361*
Trimmer cutters	83	
Typesetting substitute	354	5*
Viewer	D16	221*
Vignetting		
Contact printing	355	125*
Enlarging	355	40*
X ray	378	
Deflected X or gamma ray	378	70
Photogravure	430	307*
Photolithographic Printing Equipment	D18	36*
Photometers	356	213*
Photometric Analysis Apparatus	422	82.9
Combined with copying camera	355	68
For color pictures	355	38
Flicker beam	356	217
Microphotometers	356	213*
Photosensitive		
Coating applying	430	
Phototypograph	354	5*
Photovoltaic Devices (See Photoelectric)		
Phthalazines	544	237
Phthaleins	549	308*
Phthalic Acid	562	480*
Anhydride	549	247
Oxidation of aromatic compounds	549	248*
Phthalide	549	307
Phthalimides	548	473*
Phthalocyanines	540	122*
Phthalonitrile	558	421
Physical Training or Testing	434	247*
Physics Teaching	434	300*
Piano	84	
Actions	84	236*
And forte devices for pianos	84	216*
Automatic player piano	84	13*
Bench with music holder	312	35
Cases	84	177*
Combined with organ	84	172
Design	D17	7
Duet piano stools	297	232*
Electric tone generation	84	600*
Exercising device for pianists	84	467
Hammer action	84	235*
Harp	84	258
Pedal mechanism	84	225*
Pedestal seat	D 6	334*
Pianissimo or forte devices	84	219
Piano hammer felting	144	29
Resonance apparatus	84	189*
Stools		
Adjustable concurrent vertical and horizontal movements	108	138*
Duet	297	232*
Vertically adjustable	248	161*
Stringing	84	197*
Tuning	84	454
Electrical	84	458
Violin	84	256*
Piccolo	84	384
Pick		
Ice	30	164.5*
Carrier	224	232*
Harvesting	299	24*
Making		
Blanks and processes	76	109
Dies		
Millstone	125	42
Miners	125	43
Carrier	224	
Hand carrier	294	137*
Mining	299	79*
Stringed musical instrument	84	320
Tooth	132	321*
Picker and Picking		
Article dispensing	221	210*
Cigar and cigarette making	131	109.1
Cornstalk type	56	103*
Motorized	56	13.5*
With cutter	56	64*
Cotton	56	36*
Motorized	56	12.5
Motorized	56	13.5*
Fly shuttle	139	159*
Check	139	161R*
Plural shed	139	436
Gripper shuttle	139	438
Keylock antipick	70	419*
Keys	70	394
Trapping	70	390
Label	156	569*
Needle	139	440
Pads for envelope gummer	118	236
Piano felt	84	460
Stringed musical instrument	84	320*
Automatic	84	8*
Textile fiber preparing	19	80R*
Tufting sewing machine	112	80.1*
Picket		
Animal restraint	119	121
Barbing	227	
Fence		
Like, type of magnetic field in gas plasma control	376	121
Metallic	256	22
Wire	256	34
Pickling		
Apparatus food	99	516*
Cleaning	134	
Compositions		
Food	426	654*
Metal	252	142*
Electrolytic of metal	204	141.5*
Etching	156	625*
Fruits and vegetables	426	626
Meat	426	331
Pickup		
Balers or bundlers	56	341*
Locomotive driver	105	33
Railway car drop type	104	122
Railway mail	258	
Scales counter weight	177	248
Vacuum cleaner nozzle attached	15	415.1*
Pickup Electric	310	15*
Generator	310	15
Electromagnetic	310	15*
Piezoelectric	310	311*
Phonograph type	369	135*
Seismic type	367	178*
Sonar submarine type	367	141*
Vibration testing apparatus	73	649*
Picnic		
Box or kit	206	541*
Luggage for carrying	190	12R
Picoline	546	348
Picramic Acid	564	441
Picric Acid	568	710
Picture		
Bracket support for	248	475.1*
Exhibitors	D 6	300*
Frame	40	152
Design	D 6	300*
Molding	D25	119*
Hook or support for	D 8	367*
Support hardware	D 8	373*
Illusion	40	541
Light pipe, fiber optic	40	547*
Machine cabinet	312	20
Motion	352	240
Photograph (See photography)		
Projecting	353	
Puzzle	273	157R
Recording or reproduction	D14	
Stands	248	441.1*
Stereoscope	350	133
Target	273	358
Teaching drawing	434	85*
Toys	446	147*
Transfer (See decalcomania)		
Transmission	358	
Transmitting to a distance (See television)		
Tubes TV	313	364*
Type support	248	466*
Stage	272	10
Travel	272	18
Viewing apparatus		
For photographic transparency or X-ray	40	361*
Including illumination	350	235*
With detailed optics	350	239*
Picture Window (See Curtain, Wall)	52	777*
Pie or Pie Making	426	
Apparatus	99	450.1
Cooking	99	432*
Overflow director or receptor	126	383*
Presses	425	233*
Cooler & stacked article		
Carrier	294	161
Tray	294	161
Display container	206	45.32
Pans	99	DIG. 15
Pie design	D 1	
Shaped packaging	206	551
Slicing guide	D 7	673
Pier		
Bridge	14	75*
Foundation	405	231*
Marine	405	195*
Track pedestal	238	119
Wharves	405	284
Piercing (See Perforating, Devices)		
Piezoelectric	310	311*
Acoustic wave with mechanical energy coupling	310	334
Acoustic wave with resonator	310	322
Agitation apparatus having	366	127
Analysis		
Chemical analysis, apparatus	422	68.1
Casings for	174	50*
Casings for	220	2.1 R*
Charging piezoelectric material	361	225*
Cleaning processes using vibrations	134	1
Cleaning processes using vibrations	134	17
Compositions	252	62.9
Crystal		
Making	29	25.35*

	Class	Subclass
Rochelle salt	562	585
Electrical devices, underwater type	367	157+
Electrical systems	310	314
Electrical testing of	324	727
Fluid pressure testing having	73	754+
Galvanometers	324	109
Generator systems	322	2R
Light valve	350	269
Manufacture	29	25.35
Microphones	381	173
Modulator having	332	139+
Motor systems	318	116
Phonograph pickup	369	144
Polymers	310	800*
Relay circuit	361	207
Sonic testing having	73	570
Speakers	381	190
Speed responsive apparatus	73	517R
Telemetering using	340	870.3
Transducers	84	DIG. 24
Under water vibration transducers	367	157
Piggy Bank	D99	35+
Pigment	106	400+
Coating implement containing	401	40+
Compositions containing	106	
Synthetic resin or natural rubber (See class 523, 524)		
Inkwell containing	15	257.7+
Printing	101	
Solid polymer ctg (See synthetic resin or natural rubber)		
Pigs	428	576+
Casting apparatus	164	
Molds	249	174
Pipeline	15	104.61
Pike Poles	294	19.1+
Pile		
Arrangement holder or spacer	206	
Battery		
Primary	429	152+
Building	405	231+
Cutter circular saw type	83	743+
Drivers	173	90+
Fabric	139	391+
Axminster type loom	28	214+
Double pile cutting	26	13+
Knitted	66	194
Knitting loop forming	66	91+
Laminated	156	
Loop cutting	26	8R+
Loop cutting on loom	139	43
Multiple shed weaving	139	21
Terry	139	25+
Tube loom for axminster type	28	216
Installing	405	232+
In marine environment	405	224+
Marine foundation	405	195+
Nuclear reactor core arrangements	376	171
Nuclear reactor core arrangements	376	347
Protection	405	211+
Resistor	338	204+
Rheostat	338	115
Compressible	338	101+
Sheet	405	274+
Piles and Fagots	428	588+
Piling		
Apparatus	414	788.1+
Bleaching and dyeing running lengths	8	152
Conveyer arranging material on	198	434+
Conveyor establishing groups	198	418+
Conveyor for piling bulk material	198	508
Conveyor thrower	198	638+
Material in drying process	34	38
Web in accordion folds	270	30+
Pill (See Pellet)		
Box or container	206	528+
Dispensing single dose	206	528+
Medicator capsule	604	403+
Pocket pen type	206	537
Structured dosage unit	424	464+
Tear-off dosages	206	532
Coating machine	118	13+
Medicinal design	D28	1+
Presses	425	233+
Presses	425	406+
Pillow	5	434+
Combined with ground mat	5	419
Cover	5	490
Design	D 6	601
Dressing means	5	489
Sham	5	491
Pilocarpine	544	336
In drug	514	397
Pilot (See Igniters)		
Aircraft control	244	220+
Clutch control	192	35+
Earth boring tool type	175	385+
Flames and formation of same	431	278+
Thermocouple controlling	136	217+
Train control	246	166
Valve or trap		
Fluid motor distributing	91	304+
Servo-motor	91	461
Thermal trap	236	54
Thermal trap float controlled	236	55
Vehicle fender	293	48+
Wheel lock	70	253
Pimaric Acid	562	404+
Pimozide, in Drug	514	323
Pin (See Hinge; Joints; Peg; Pintle)		
Article holding bracket	248	309.2
Bedstead element	5	303
Cigar tip perforating	131	254
Curb for watch balance	368	176
Cushion	223	109R+
Draft couplings		
Animal draft	278	
Railway vehicles	213	78+
Fastener	24	706+
Article holder	24	13
Binder device releasably sheet	402	
Button	24	103
Button loop interchangeable	24	89
Cotter	411	513+
Cuff holder	24	48
Flower holder	24	6
Hair	132	276+
Hair curler	132	245+
Hat	24	706+
Attached to hat	132	57.1+
Holders	223	109R
Necktie holder	24	49CP
Ornamental	63	20
Ornamental design	D11	87
Packages	206	380+
Packaging	227	25
Pencil holder	24	12
Pins combined	24	356+
Tag	40	668
Watchcase	368	313
Flush pin gauges	33	DIG. 18
Game	273	67R+
Bowling	273	82R
Pinball machine	273	118R+
Larding	17	42.1
Linchpin		
Land vehicle	301	113
Railway wheel	295	50
Looper for knitters	66	3+
Making	163	6+
Clothespins wire	140	83
Clothespins wood	144	9
Cotter pins	29	5
Glass head pins	65	142+
Hairpin	140	87
Wood pin points		
Wood pins	144	12
Ornamental pin, jewelry	63	20
Rolling	29	110.5
Setter		
Bowling pin	273	42R+
Bowling pin spotter	273	46
Watchmakers	81	8
Wood pin	227	
Shear	464	32+
Plow releasing	172	271
Ships implement	114	221R+
Skewer	17	15
Sprocket chain pivot	474	206+
String tuning musical	84	201
Tumblers lock type	70	378
Wheel	446	217+
Wrist	74	595+
Pinacol	568	852+
Pinball	D21	7
Pince-nez	D16	107+
Pincers		
Lasting implements	12	110+
Pinch		
Bar	254	36+
Cocks	251	5
Effect, in thermo nuclear reactions	376	121
Thread, bolt to nut lock, different or varying pitch	411	307
Pinching Kinesiatrically	128	59
Pincushion	223	109R+
Pineapple		
Planters	111	912*
Pinene (See Alicyclic Hydrocarbon)	585	350+
Pinhole		
Camera	354	202+
Pinion (See Rack)	74	434+
Making	29	178
Typewriter feed	400	330+
Watch	368	322
Cannon	368	323
Pinking Cutters	83	918*
Machines		
Reciprocating cutter	83	918*
Rotary cutter	83	333+
Shears	30	230
Pinners Hat Machines	223	11
Pintle		
Bedstead element	5	303
Caster	16	37
Retainers	16	38+
Hinge	16	386
Coil spring	16	304+
Multiple pintle	16	366+
Retainer	16	263+
Railway car journal lid	384	190.6
Pintsch Gas	48	211+
Pinwheels	446	217+
Pyrotechnic	102	359
Pipe (See Tube; Tobacco)	138	
Bending (See bending)		
Briar	131	230
Caps	138	89+
Tobacco	131	176+
Ventilating	98	122
Chute	193	29+
Cleaner		
Boiler combined	122	379+
Brushing machine	15	88
Cookstove flue	126	16
Design	D32	14
Fluid handling apparatus	137	238+
Implement	15	104.3+
Operated by fluid current	15	104.61+
Sewer	15	104.31+
Jet pump	15	408
Process	134	22.1+
Tobacco ash receiver combined	131	232
Tobacco smoking	131	243+
Tobacco smoking combined	131	184.1
Closures or plugs	138	89+
Connections		
Closet bowls	4	252R+
Corncob	131	230
Couplers & connectors (See joints, pipes, shafts, rods, plates)		
Electrical	439	207+
Electrical box and housing	174	65R
Electrical quick detachable	439	195
Packing	277	
Valved	251	142+
Coupling	285	
Valved	251	142+
Cutters for pipes and rods	30	92+
Design	D 8	60
Well tubing	166	55
Design	D27	163+
Disinfection of flush	4	225
Chemical holder	4	226
Dry fire extinguisher	169	17
Elimination of in ingot	29	526.2+
Fittings	285	120+
Making	29	890.14+
Flanging machines	72	115+
Flaring	72	317
Rotating tool	72	115+
Flexible		
Coupling	285	238+
Steam locomotive	105	47
Structure	138	118+
Valved coupling	251	150
Fluid distribution type	D23	266
Fluid pressure brake control	303	
Hangers and supports	248	49+
Dredgers	37	72
For slender article	211	60.1
Hawse	114	179+

	Class	Subclass
Heat exchanger	165	177+
Hickeys (See bending)		
Holder	D27	180+
Hydraulic ram	417	226+
Irrigation, vehicle supported	239	723+
Jack for pipes or rods	254	29R+
Joints	285	
Making	29	428+
Making	29	890.43
Valved	251	142+
Laying pipe and cable	405	154+
Submarine	405	158+
Making		
Bending	72	367+
Clay smoking	425	233+
Earthenware machine	425	376.1+
Earthenware mold	249	136+
Encircling with wire on tape	242	7.22+
Expander	72	317
Fittings	29	890.14+
Flanging	72	317
Foundry mold making	164	176+
Glass	65	
Laminated	156	
Filament winding by	169	
Metal casting	164	
Apparatus	164	421+
Metal fusion-bonding apparatus	228	
Metal joint mold	249	89
Reamer	408	227+
Riveting	227	52
Soldering clamp	269	
Swaging	72	399+
Trimming	408	28+
Organ	84	331+
Automatic	84	91
Pattern sprayer	239	548+
Pocket case for	206	244
Rack	211	70.3+
Smoking device	131	260
Rotary shaft	464	183
Joints	464	18+
Sand delivery	291	41+
Shearing machines	30	92+
Smokers pipe literature	131	DIG. 1
Soap bubble	446	19+
Sprinkler	239	266+
Stand (See tank)		
Flue boiler	122	184+
Superheater	122	475
Water tube boiler	122	321+
Water tube boiler coil or loop	122	244+
Water tube boiler loop	122	281
Water tube boiler spur	122	307+
Stems	131	227+
Stove	126	307R+
Damper	126	292+
Oven	126	17
Water heater	126	364+
Strainers	4	DIG. 13
Structure	138	177
End combined	138	109
Supports	248	49+
Tamper tobacco smokers	131	247+
Thread	285	390+
Protectors	138	96R
Threading		
Cutting	408	
Milling	409	65+
Rolling	72	126
Tobacco	131	330+
Cartridge	131	348
Toy	446	24
Train	239	723+
Waste	4	191+
Well		
Cleaner combined	166	173+
Cutter or perforator	166	55
Destroying	166	373+
Expansible	166	207
Joining	166	373+
Plural concentric	285	138+
Screen combined	166	227+
Structure	166	242
Weakening	166	55
Wrenches	81	52+
Pipeline		
Cleaner	15	104.3
Filters	210	435+
Intake	210	460+
Piperazines	544	358+
Piperidine	546	184+
Piperonal	549	436
Pipette	73	864.1+
Pipette	422	100
Absorption for gas analysis	422	83+
Body contacting, eg, hypodermic needle, syringe	128	
Design	D24	55
Design, chicker baster	D24	60+
Chemical analysis, apparatus	422	82.5
Chemical apparatus	422	
Chemical methods	23	
Container cap combined	141	29
Container or container closure	141	22+
Bulb type, eg eye dropper	141	24
Dispensing	222	
Drop formers	222	420
Medicinal	604	295+
Design	D24	55
Successive receivers filled from continuously flowing source	141	130
Pipings	36	57
Pipings, Upholstery Trim	428	123
Piromidic Acid, in Drug	514	303
Pistol		
Grip	42	71.2+
Magazine	42	7
Holsters	224	193
Design	D 3	101
For either side of torso	224	192
Leather or flexible fabric	224	911*
Metal or rigid material	224	912*
Rotatably or swingably attached	224	198*
Shoulder	224	206*
With closure flap	224	238*
With gun positioner	224	243*
Revolvers	42	59+
Design	D22	104+
Swords	42	53
Design	D22	118
Water	222	79
Piston (See Associated Device)		
Cleaner for plugs and pistons	15	104.11+
Door check	16	49+
Expansible chamber device	92	
Annular	92	107+
Multiple	92	61+
Oscillating	92	120+
Filler for fountain pens	401	171+
Fire extinguisher	169	33
Free piston	60	910*
Hammer of tool drive	173	134+
Hypodermic	604	218+
Internal combustion engine	123	193R
Manufacture	29	888.4+
Grinding	51	289R
Meter	73	232+
Packing	277	
Digest	33	DIG. 15
Pressure gauge	73	744+
Ring	277	
Assembling and disassembling on piston	29	222+
Gauge, ring & bearing race	33	DIG. 17
Group contracting for working	29	269
Lubrication combined with		
Making	29	888.7+
Testing	73	120
Testing for leakage	73	47
Rod (See rod connecting)	74	579R+
Lubricators	184	24+
Valved piston compressor or pump combined	417	545+
Rotary engine	123	200+
Rotary for motors	418	68
Sausage stuffer	17	36+
Syringe	604	218+
Valve	251	324+
Check type	137	538
Valved		
Pump liquid	417	545+
Pit Remover	30	113.1+
Pitch (See Tar)		
Changing		
Conveyor screw	198	659
Impeller	416	25+
Musical instrument	84	
Pump impeller	415	129+
Ship propeller	440	50
Fuel containing	44	
Ionized gas		
Fluent material supplied space discharge device	313	231.1+
Making, treating and recovery	208	39+
Mineral oil only	208	22+
Music device for giving pitch	84	454+
Plastic compositions containing	106	
Production by distillation	201	
Pitcher	222	
Dispensing type with handle	222	465.1+
Handle, asymmetric	D 8	DIG. 9
With flow controller or closure	222	556+
Pitchfork	294	55.5+
Cutter combined	7	115+
Making		
Blanks and processes	76	111
Dies	72	470+
Pitching Casks	118	
Pitchometers	33	530
Pitman (See Connecting Rod)	74	579R+
Bearing	384	266+
Making	29	888.9
Piton	248	216.1+
Mountain climbing aids	248	925
Pitot Meter	73	861.65+
Pitter	99	547+
Pivampicillin	540	336
Pivot (See Hinge; Joints)		
Bearing	384	192+
Knife-edge fulcrum	384	4+
Rotary crane	212	253
Teeth	433	220+
Turntable	104	46
Pku	436	108*
Placard Frames	40	152+
Placemat		
Furniture protector	D 6	613+
Paper	D 6	613+
Placers (See Arranging; Piling)		
Electrical wiring	254	134.3 R
Hammer with nail placer	81	23+
Track ties	104	6
Track torpedo	246	216
Placket	2	218
Plait and Plaiting		
Apparel making	223	28+
Box making	493	162+
Knitting	66	14
Laminated pile fabric making	156	
Tucking	112	145
Planes		
Woodworking	30	478+
Planetarium	434	286
Planetary (See Gear and Gearing)		
Planimeter	33	122
Planing Devices		
Bench planes for wood	30	478+
Hair planer	30	30+
Planer type combined machine	29	30
Planing machine	409	288+
Stave jointing	147	33
Stoneworking	125	9
Wood saw teeth	83	835+
Wood slivering scoring	144	186+
Woodworking	144	114R+
Woodworking combined machine	144	36+
Plank and Planking (See Panel)		
Clamp portable for	269	91+
Pavement	404	17+
Railway truck plank	105	208
Scaffold	182	222+
Ship	114	84
Planographic		
Printing	101	130+
Electrolytic coating	204	17
Multicolor surface making photographic	430	301
Surface making photographic	430	300+
Plans		
Building	52	234+
Store	52	33
Traffic guide	52	174
Plant	800	200+
Bud	800	200
Carnation	800	DIG. 1
Chrysanthemum	800	DIG. 12
Corn	800	DIG. 56
Derived from embryogenesis	800	205+
Derived from mutagenesis	800	230
Derived from protoplast cell fusion; somatic cell fusion	800	220
Derived from recombinant or transgenic processes; transformation	800	205

	Class	Subclass
Derived from spontaneous mutation	800	230
Derived from tissue culture regeneration	800	205
Derived from traditional breeding techniques	800	200
Dicotyledon seed (dicot)	800	255
Embryo	800	200+
Embryoid	800	200+
Flower	800	200
Flowering plant	800	DIG. 67+
Fruit	800	200
Fruit plant	800	DIG. 64+
Fusion product	800	220
Graft or plant with grafted part	800	240
Gymnosperm	800	DIG. 49+
Leaf	800	200
Meristem	800	200
Mutant plant	800	230+
Monocot (e. g. maize)	800	235
Other plant parts	800	200
Pear	800	DIG. 35
Plantlet	800	200+
Recombinant plant	800	205
Rice	800	DIG. 57
Root	800	200
Rose	800	DIG. 36
Seedling	800	200
Seeds, genetically modified	800	250
Shoot	800	200+
Stem	800	200
Tuber	800	200
Vegetable plant	800	DIG. 71
Wheat	800	DIG. 58
Plant Cell Culture	435	240.4+
Plant Cell Growth Media	435	240.54+
Plant Cell Per se	435	240.4+
Planters and Planting		
Agricultural	111	
Broadcasting	111	130+
Dibbling	111	89+
Drilling	111	14+
Liquid or gas	111	118+
Plant setting	111	100+
Corn planter clutches	192	23
Plants		
Attack resistant stock	428	907*
Catalysts and stimulants	71	65+
Coating of	427	4
Cutting and comminuting		
Discriminate	99	
Indiscriminate comminuting	241	
Indiscriminate cutting	83	
Extracts (See extracts)		
Food	99	
Gas making	48	
Heat or power		
Aircraft	244	53R+
Boiler	122	1R+
Dynamoelectric	290	
Heat and power combined	237	12.1+
Heating systems	237	13
Power	60	
Husbandry (See plant class)	47	
Compound tools	7	114+
Covers, shades and screens	47	26+
Diggers	171	
Fertilizers	71	
Fertilizers	47	48.5
Fruit cutters and corers	30	113.3
Garden hose	138	118+
Garden rake	56	400.1
Greenhouses	47	17+
Harrows	172	
Harvesters	56	
Hotbeds and coldframes	47	19
Nutrient supply	47	62+
Ornamental beds	47	33
Planting	111	
Plows and cultivators	172	
Pollination	47	1.41
Pots and receptacles	47	66+
Powder dusters or sprayers	239	
Presses for balers	100	
Sprayers mixing and dissolving	239	310+
Terrarium	47	69+
Threshing	460	
Tree fumigators	43	126
Tree hacks	30	121
Water culture	47	59+
Lights	362	805*
Living	800	200+
Metallurgical	266	142+
Molding	425	
Brickmaking	425	88
Nameplates or cards for	40	645+
Nuclear	376	
Patented varieties of	PLT	
Planting	111	
Dispensing seed	222	
Grain drill chutes	193	9
Preserving	47	58
Coating	427	4
Cut flower holder	47	41.1+
Stalks retting	162	1+
Retting bacteriological	435	279+
Stands	47	39+
Thinners	172	534+
Earth working function	172	900*
Plant sensor activates power	47	1.43
Plaque	428	913.3
Holder	248	488+
Holder	248	490+
Layer non-planar	428	174+
Layer varying thickness	428	156+
Panel type, sectional layer	428	44+
Wall decoration	D11	132+
Plasma	424	530
Blood component	424	530
Drying and freezing	34	5
Gas:		
Chemical process employing	204	164+
Injecting fuel into body of plasma	376	127
Ion producer	361	230
Magnetohydrodynamic generator	310	11
Moving or shifting plasma	376	107
Nuclear fusion reactions	376	100
Containment by magnetic field	376	121
Systems	315	111.21+
Plasmid	935	27*
Plaster of Paris (see Plaster)	106	772+
Plaster or Plastered (See Plastering; Plastic)		
Board	52	443+
Attached to furring	52	344+
Edge joint	52	448+
Laminate	428	411.1+
Making	156	39
Corner	52	250+
Cutters		
Hand manipulable	30	165+
Machines	83	
Pointers	15	235.3
Medicated composition	424	
On brick	52	444
Panel strip	52	459
Plaster of paris	106	772+
Alkali metal silicate composition	106	611+
Compositions	106	772+
Processes of burning	106	765+
Splint	128	91R+
Screed	52	364+
Slatted lath	52	341+
Surgical body wear	128	390
Trimmers	433	144
Plastering		
Applicator-material supplied	15	104.93
Fountain-trowel	15	235.4
Machines	425	62
Machines	425	87
Mortar-joint finisher	15	235.3
Combined	15	105.5
Trowel	15	235.4+
Plastic (See Plaster)		
Block and earthenware apparatus	425	
Chain, staple, horseshoe making	59	
Coating	106	
Compositions	106	
Cutters	30	115
Deformation, pressing, or treating		
Metal deformation	72	
Metal fusion bonding	228	
Presses	100	
Shaping or treating apparatus	425	
Sheet metal container making	413	
Static molds	249	
Wireworking	140	
Dyeing of	8	
Jewelry	63	DIG. 3
Metalworking	72	253.1+
Superplastic material	72	709*
Plastics	425	
Screws, bolts, nails etc	411	904*
Shaping or treating articles		
Apparatus	425	
Computer controlled, monitored	364	473
Processes	264	
Structures		
Brush or broom tuft socket	15	193
Coffins	27	7
Fence connections rail	256	66
Fence connections wire	256	50+
Fences	256	19
Hook	24	907
Lacing eyelet	24	713.8
Lacing hooks	24	714.3
Railway ties	238	84+
Seat covers	297	219+
Settable material masonry	52	
Splints	128	90+
Synthetic resin building component	52	309.1+
Testing of	73	150R
Plasticizing		
Casein ctg compositions	106	147
Gelatine ctg compositions	106	136
Polymer treating (See synthetic resin or natural rubber)		
Textiles	8	130.1+
Plate		
Antiskid for tires	152	225R+
Baking	99	372
Cleaners		
Brushing	15	77
Wiping	15	102
Compound metal	428	615+
Dental	433	167+
Design, household	D 7	500+
Distribution for electric wires	174	40R+
Electric		
Conductor	191	13
Consumable electrode	314	44
Face	220	241
Face switch	174	66+
Fluorescent	250	466.1
Switch	200	271
Switchboard	361	346+
Electrophotographic copier	355	211+
Escutcheons	70	452
Door knob	292	357
Face	220	241
Electric housing	174	66
Grinding and polishing	51	
Lock	70	450
Making	65	
Hinge	16	251
Illumination lens perforated	362	456
Joints and couplings (See joints)		
Pipe and plate	285	189+
Pipe and plural plate	285	128+
Pipe and plural plate spaced	285	19+
Rod and plate	403	230+
Through plate insulator	174	151+
With intermediate member	403	187+
Kick	16	1R
Kick guard	16	DIG. 2
Knob rose	292	357
License	40	200+
Lifters	294	27.1+
Lifting clamp	294	901*
Liquid heater or vaporizer	122	208
Nail plates	10	33
Distributors	10	171+
Horseshoe nails	10	41
Name	40	
Houses	40	
Letter box	232	46
Nuclear fuel	376	432
Packages	206	449+
Pattern foundry type	164	241
Photography		
Camera	354	
Coating apparatus	118	
Plate holders	354	276+
Plates	430	495+
X ray plate changers	378	172
X ray plate holders	378	167
Portable closure fastener	292	289+
Printing	101	395
Addressing	101	369+
Casting	164	2+
Coating electrolytically	204	17
Making electrolytically	204	6
Making stereotype	29	21
Mountings	101	382.1+

	Class	Subclass
Prism for overhead lighting	362	326*
Push	16	1R
Racks for	211	41
Railway		
Draft cheek	213	54*
Frog	246	442
Rail base plate	238	209*
Switch	246	453
Tie	238	287*
Rectifiers, dry	357	
Sounding for pianos	84	184*
Stencil	101	127*
Plate	101	112
Stock metal	428	615*
Storage battery	429	209*
Stove	126	81
Stovepipe thimble	126	317
Table article	220	
Design	D 7	500*
Design, simulative	D 7	571
Transformer	336	
Tumblers lock type	70	377
Turners	294	6
Watch	368	318
Design	D10	123*
Platen		
Copyholding (See copyholder)		
Electrophotographic copier	355	230*
Heat exchanger	165	168*
Liquid extracting press	100	295*
Memorandum pad type	281	6*
Metal rolling	72	88*
Roll and platen	72	88*
Screw thread	72	88*
Printing press bed and platen type	101	287*
Addressing machine	101	57*
Intaglio	101	163*
Multicolor	101	193*
Numbering	101	78*
Roller and plate inker	101	338*
Roller type inker	101	359*
Selective or progressive	101	93*
Special article	101	41*
Ticket machine	101	66*
Reciprocating press	100	214*
Smoothing and pressing textiles	38	17*
Conveyor belt combined	38	10
Implements	38	71*
Multiple cooperative	38	5
Structure of	38	66
With fluid flow	38	15*
Stamping recorder	346	78
Textile felting	28	139*
Typewriter	400	648*
Card holder combined	400	525*
Case vertical shift	400	264*
Divided	400	585*
Flat	400	23*
Index wheel	400	158*
Key wheel	400	158*
Rocker platen	400	649*
Shift lock	400	274*
Wear distributors	400	554*
Washing textiles		
Roll and platen scrubber type	68	86*
Scrubbing by carrier roll and platen	68	42
Platers Railway Tie	104	16
Platform		
Actuator		
Closure fastener	292	94
Door	49	263*
Register	235	99R
Dumping scow	114	31*
Floating landing	114	263
Gyrostabilized	248	183
Harvester platform adjustments	56	208*
Illuminators vehicle	362	76
Industrial	108	51.1*
Synthetic plastic	108	901*
Deformable integral fastening elements	108	902*
Knock-down	108	51.3
Ladder	182	116*
Land vehicle		
Swinging axle	280	114*
Connections	280	130*
Rocking connections	280	127*
Load-transfer	108	52.1
Marine drilling	405	195*
Pole or tree	182	187*
Portable lift truck	108	51.1*
Railroad car	105	425*
End buffer	213	222
Truck platform	105	211*
Railroad station	104	30*
Scaffold	182	222*
Elevating	182	141*
Tunnel construction	405	148
Scale	177	253*
Shoes	36	19.5
Stove and furnace	126	277*
Synthetic plastic industrial platform	108	901*
Made with deformable integral fastening elements	108	902*
Take-it-or-leave-it	108	52.1
Vehicle illuminators	362	76
Window	182	53*
Plating (See Coating; Electrolytic Devices)		
Electrolytic coating processes	204	14.1*
Piano keys having	84	437
Warship armor	114	11*
Platinum		
Alloys	420	466
Compounds	23	
Organic	556	136*
Electrolysis	204	
Igniting devices	431	268
Misc. chemical manufacture	156	DIG. 101
Pyrometallurgy	75	633
Player		
Automatic music instrument	84	2*
Automatic musical player attachable to keyboard	84	105*
Automatic player piano	84	13*
Musical cord played by single key	84	443*
Page turner operated by player	84	502*
Playground Climber	272	113
Design	D21	242*
Playing Cards	273	292*
Design	D21	42*
Playpen	256	25
Childs furniture		
Design	D 6	331
With floor	5	99.1
Pleat		
Apparatus	223	28
Method	223	28
Pleated		
Web or sheet	428	181
Plectrum		
Piano	84	258
Picking device	84	320
Plenum		
Fluid mixer thermal	236	13
Surgical receptor	604	313*
Plexiglass T M (See Synthetic Resin or Natural Rubber)		
Pliabilizing		
Shoe soles	12	41.2*
In shoe	12	41.1
Pliers	81	300*
Assembling tool	29	268
Bending	72	409*
Clip applying	72	409*
Nose ring	72	409*
Compound tool	7	125*
Tong type	294	3
Cotter removers	29	248
Dental	433	159*
Orthodontic	433	4
Design	D 8	52*
Ear tag	72	409*
Eyelet setting	227	144
Hollow rivet setting	227	144
Implements	12	110*
Lever pulling or pushing	29	268
Making		
Dies	72	470*
Pivoted	76	64
Sliding	76	69
Piston ring tools	29	223*
Punches	30	363
Spectacle	81	3.6
Staking	29	232
Tongs	294	
Valve tools engine	29	221
Wire twisters	140	121
Plinth (See Base)		
Plisphan T M (phenoplast)	528	129
Plotters Perspective	33	432*
Plow	172	
Cable hauled	104	169
Conduit or trolley		
Electric current collector	191	48
Railway block signal actuation	246	84
Railway switch actuation	246	252
Trap	104	145
Design	D15	11*
Disk bearing	384	157
Radial antifriction	384	460
Ditcher type	37	98*
Forging dies	72	474*
Gondola car unloading	105	259
Hillside	172	204*
Cable hauled	104	169
Iron making	29	14
Lifting clutch	192	62
Making	29	14
Mole	37	193
Cable laying combined	405	184
Pipe or cable laying	405	180*
Submerged	405	164*
Potato digger	171	71*
Potato digger	171	111*
Road grader type	37	110*
Snow		
Excavator and melter type	37	227*
Railway type	37	214*
Roadway type	37	266*
Subsoil	172	699*
Plucks		
Fowl plucking apparatus	17	11.1 R
Fur plucking apparatus	69	26
Musical instrument (See music)		
Plug		
Barrel bung	217	110*
Blasting	102	333
Blasting cartridge combined with	102	304
Bottle and jar closures	215	200*
Dispensing flow control		
Axial discharge stationary	222	521
Cap carried axial	222	546
Closure	222	563
Rotary	222	554
Rotary screw	222	552
Electric connector or switch		
Boxes and housings plug receptacle type	174	53
Cleaner ie spark plug	15	104.11*
Conductor reel combined with	191	12.4
Electric fuse	337	254*
Electric fuse and socket	337	213*
Electric switch combined with	200	51R
Electric switch type	200	253.1*
Interposed two part	439	625*
Outlet box and wall plug	439	638*
Quick detachable	439	180
Resistance plug boxes	338	77
Screw	439	662*
Telephone multiple switchboard plug terminal	379	312*
Telephone multiple switchboard test	379	20*
Telephone switchboard	379	319*
Flow meter with orifice and tapered plug	73	861.58
Incandescent lamp seal	220	2.1 R*
Lock cylinder type		
Cylinder and plug assembly	70	367*
Element	70	375
Rotary	70	490*
Sliding	70	361
Sliding and rotary	70	360
Lubricator choke	184	52
Metal receptacle closure expansible type	220	233*
Metallurgical furnace tap hole	266	271
Nail hole	52	514
Nuclear fuel closure	376	451
Pipe and conduit	138	89*
Pipe coupling solid type	285	242
Plugging instruments dental	433	25*
Rail spike receiving	238	370
Spark (See spark plugs)		
Swivel pipe joint with	285	121*
Telephone jack and plug	439	676*
In central office switchboard	379	319*
Tire patch combined with	152	370
Tire plug inserting tool	81	15.5*
Tobacco		
Attaching cigar and cigarette	131	94

	Class	Subclass
Combined	131	366+
Compositions	131	352
Design	D27	101
Inserting cigar and cigarette	131	72
Making	131	111+
Shapes	131	111+
Wrappers or binders	131	365
Valve		
Bath or basin outlet type	4	204
Float operated	4	205+
With inside operator	4	204+
Combined with strainer	4	287
Head	251	356+
Hydrant type	137	272+
Liquid filter with screened type	210	429+
Movable liquid filter with screened type	210	390
Multiple outlet nozzle rotary	239	392+
Nonstop reciprocating	137	528+
Plug cock and seat abrading machine	51	28
Reciprocating	251	318+
Rotary	251	309+
Ship bottom type	114	197
Stopper type	4	295
Well		
Cementing or plugging	166	285+
Closing part	166	141
Handling	166	373+
Preset	166	114
Preset conduit carried	166	116
With expanding anchor	166	118+
With outward pressure means	166	101
With pump or plunger	166	106
Plug in Units		
Contact and socket structure	439	626+
Structural combinations	361	392+
Plumb Bob	33	392+
Design	D10	61+
Plumbago (See Graphite)		
Plumbanes	556	95
Hexaorganodiplumbanes	556	82
Plumbates	423	592+
Plumbers Friend	4	255+
Plumbing		
Baths and closets	4	
Design	D23	200
House fittings	4	DIG. 7
Sewerage	137	356+
Snake	15	104.33
Trap making	29	890.146
Water flow control	137	
Water pressure regulator	137	505+
Plumbs		
Structure	33	391+
Wall construction guides	33	404+
Wireworking	140	41
Plumes	428	6
Plume abatement	261	DIG. 77
Plunger		
Air pressure guns having	124	65+
Conveyer elements	198	717+
Die or cutter		
Box making	493	167+
Pastry cutter	83	
Plastic metal shaping	72	273
Sheet or bar die cutter	83	
Stationary vegetable or meat cutter	83	401+
Wood slivering	144	190
Drilling or dibbling planters having	111	
Expansion chambers having	138	31
Feed (See type of machine)		
Coal spreader for furnace	110	114
Locomotive tender	105	233
Manual dibblers	111	96
Railway sand feeders	291	36+
Rotary peripheral face abraders	51	82R
Gangs having	116	152+
Mechanical gun plunger release mechanism	124	33+
Press		
Block forming plungers	425	398+
Block forming plungers	425	344+
Block forming plungers	425	412+
Block forming presses		
Portable	425	
Reciprocating mold	425	352+
Reciprocating mold	425	406+
Stationary mold	425	352+
Stationary mold	425	406+
Die expressing metal	72	273
Earthenware die expressers	425	406
Glass mold plungers	65	362
Metal mold sand packers	164	207+
Miscellaneous die expressers presses	425	406+
Pump having	417	437+
Textile fluid treating apparatus having	68	
Vegetable comminutors having	241	
Water closet having	4	300+
Plural Amplifier Channel Systems	330	124R+
Transistor type	330	295
Plutonium Compounds		
Inorganic	423	251
Organic	534	11+
Ply		
Delaminating	156	344
Laminate	428	
Wood	428	106
Wood	428	533+
Laminated	428	411.1+
Sewing machine trimmer combined	112	127
Tires resilient	152	151+
Woven fabrics	139	409+
Plywood (See Veneering)	52	
Making		
Glue appliers and presses	156	
Presses	156	580+
Processes	156	
Processes combined	144	346+
Pneumatic (See Hydraulic)		
Apparel turning	223	43
Burner extinguisher	431	145
Carding stripping	19	109
Chuck	279	4
Cleaners	15	300.1+
Clock	368	54
Combined automatically played musical instruments	84	6
Conveyers and feeders		
Agitation and	222	195
Article dispensing	221	278
Conveyer	406	
Pneumatic or liquid stream feeding item	209	906*
Sheet or web feeding or delivery	271	
Stacker	406	
Cotton harvester	56	30+
Motor driven	56	13.1+
Dispatch	406	
Tube or system	D18	35
Endless flexible track for land vehicle	305	34
Face plate expander	105	11
Folder	493	450
Gas separator cleaning	55	282+
Grooming device	15	401+
Gun	124	56+
Harvester	56	12.9+
Jet for marine propulsion	440	38
Mattresses	5	449+
Metal casting injector	164	306+
Musical instrument player attachable to keyboard	84	107
Musical instrument tracker	84	151+
Musical instrument tracker combined with sheet	84	146+
Nail driving device	227	9
Piano automatically played	84	24+
Pipe organ	84	331+
Power plant	60	407+
Pump	417	118+
Air jet combined	417	86
Jet type pump	417	151+
Railway cable gripper	104	203
Railway propulsion system	104	155
Locomotives	105	63+
Selector for automatically played musical instrument	84	115+
Sheet turner for sheet music	84	519
Shoe forms	12	114.4
Shoe sole cushion	36	29
Tamper for track laying	104	10+
Tire (See tire, pneumatic)	152	151+
Toy	446	176+
Typewriter	400	176+
Carriage return	400	182+
Velocipede seat	297	199+
Wheel	152	1+
Wind instrument automatically played	84	83+
Pneumatherax Apparatus	604	26
Pocket		
Alarm watch or clock	368	244
Apparel element	2	247+
In garment supporter	2	300
Shoe with	36	1
Book covers	281	31
Calendars combining card pockets	40	122
Carried		
Brush with recess for comb	132	121
Lighter	431	129+
Lighter	431	146+
Match safe	206	96+
Special receptacle carried in pocket	206	37+
Spittoon carried in pocket	4	259
Ticket case	206	39
Cartridge belt with pocket holder	224	224+
Cartridge belt with tilting	224	224
Compound tool	7	118+
Pocketknife	30	155+
Dispenser with		
Barometric or angle of repose trap	222	457
Movable trap chamber	222	344+
Tiltable container trap only	222	454+
Trap chamber cutoff	222	425+
Game table with		
Ball game	273	123R+
Moving surface type	273	113+
Pool	273	12
Pool with chutes connected	273	11R
Lamps	362	157+
With writing pads	362	99
Letter box with	232	33
Letter box with pivoted trap	232	47+
Machine		
Article dispenser ejector	221	208+
Bevel machine table	144	125
Cutting window stile pockets	144	19
Dryer rotary drums	34	109
Dryer shelves	34	172
Endless conveyor with flexible pocket	198	715
Felting machine roller	28	126+
Locomotive tender draft device	213	6
Loom pushed shed	139	28
Pneumatic conveyer feeder	406	63+
Manifolding strip form pockets for sheets	282	11.5 R
Match safe	206	96+
Design	D27	173+
Paper wrappers with	229	87.5
Picture mounts pocketed	40	159
Railway car post holder	105	408
Railway flat car stake holder	105	390+
Releasable	105	383
Sliding window sash	49	372+
Solid separator employing	209	684+
Stove grates with	126	159
Stoves	126	38
Support with	211	55+
Telescopes	350	546
Watches	368	62+
Wooden receptacle with	217	28
Woven	139	389+
Pocketbook	150	100+
Closure	150	118+
Design	D 3	42+
Pocketknife	30	155+
Compound tool	7	118+
Pod		
Augers		
Wood	408	199+
Pogo Stick	272	114
Design	D21	67
Walking	272	70+
Point & Points (See Impaling; Prong; Punch)		
Bands wheel hub	301	107
Glaziers	411	477+
Guards or holders		
Hatpin	132	72.1
With hatpin guide	132	69.1
Marker guide	33	574+
With gauge	33	666+
Nails spikes tacks	411	493+
Needles (See notes to)	223	102
Parallelizing divider	33	558.3
Pen (See penpoints)	15	445+
Plow	172	681+

	Class	Subclass
Printers for the blind	400	122+
Protectors pencil sharpener	30	460
Railway switch	246	435R+
Thrower	246	264+
Setter glazier	227	
Spreaders nail spike tack	411	359+
Switch		
Foot guard	238	380
Structure	246	435R+
Thrower railway	246	264+
Trolley transfer	104	104+
Ties and braces mattresses	5	458
Trolley transfer	104	104
Vaccine supply	206	367
Well casing	175	19+
Pointer		
Chance device	273	141R
Indicator type	116	
Arm structure	116	327+
Masonry implement	15	235.3
Pointing (See Caulking)		
Barrel hoop lapping and	147	45
Bolts	10	21
Nail cutting and	10	31
Pencil (See pencil sharpeners)	30	451+
Screw threading and	10	4
Screws	10	9
Spike	10	59
Staple cutting bending and	59	74
Wooden pin	144	30
Poise		
Scale		
Automatic	177	235+
Beam	177	246+
Beam automatic	177	212-
Computing	177	35
Poison	424	
Holder or container		
Alarm combined	116	72
Indicating contents	215	367
Vermin destroying	43	131
Poker	294	14
Poker Chips	D21	53
Rack	211	49.1
Pokes	119	136+
Polarimeters	356	367+
Polariscopes	356	366
Polarity Testers	324	133
Polarized Devices and Polarizers		
Electromagnet with armature	335	230+
Electromagnetic wave	343	909
In wave guide	333	21R
With antenna	343	756
Examination devices generally	356	356
Gem and crystal examining	356	30+
Glass	350	370+
Headlight	362	19
Illuminated signs	40	548
Image projectors	353	20
Light polarizer	350	370+
Combined with illuminator	362	19
Light valve	350	374+
Making		
Structural orientation	264	1.3
Radio wave polarizations	343	909+
Spectro-photometers	356	326
Stage illusions using	273	9+
Stereoscope, stereo systems	350	132
Storage and retrieval of information	365	121
Switch electromagnetic	335	78+
Telegraph code recorder	178	93
With antenna	343	756
Testing with polarizers	356	364+
Vision testing means	351	49
Polarographic Chemical Analysis	204	400+
Apparatus	422	82.1+
Pole (See Mast; Post)		
Barber	40	607
Boat	440	36
Changer	361	245+
Changing in alternating current motors		
Induction	318	773
Synchronous	318	704
Climbers	182	133+
Leg or shoe attachable	182	221
Collectors trolley	191	64
Couplings	191	60.5
Curtain design	D 8	376+
Electrical conductor	174	45R
For electric wire	52	4
Fire escape	182	189+
Wall attached	182	100
Flagstaffs	116	173+
Hammock ridgepole	5	130
Handlers	414	23
Land vehicle		
Supports	278	86+
Thills	278	33+
Tow	280	493+
Light support	362	431
Adjustable light	362	418+
Magnetoelectric armatures	310	264
Manipulating	294	19.1+
Plate or piece		
Switch	200	271
Telephone magnet	381	199+
Rack type	211	105.1+
Rossing bark	144	208R
Scaffolds for	182	187+
Ski	280	819+
Spray	239	532
Switch electric	200	49
Tent	135	114
Window operating	49	460+
Poler		
Bearing plate for poling railway cars	105	462
Marine propulsion device	440	36
Side track push rods	213	224
Police or Fire Alarms and Signals		
Signal systems	340	287+
Telephone circuit combined	379	37+
Telegraphs	340	287+
Whistle	116	137R+
Policemens Clubs or Batons	273	84R
Carriers for	224	914*
Polishing and Polishing Appliances (See Burnishing)		
Abrading	51	
Boot and shoe machines		
Cleaning and blacking combined	15	30+
Cleaning combined	15	36+
Component parts in making	12	79.5
Coating treating process	427	355
Compositions	106	3+
Dental grinders combined	433	142
Motor driven	433	125
Fabric type	15	209R+
Hat pouncing combined	223	20
Machinery design	D15	124+
Metal burnishing	29	90.1+
Needle eye working	51	152
Paper calendering	29	90.1
Scouring machines combined	51	4
Planing combined	144	38
Turning combined	144	47
Shoe stands with polisher guide	15	266
Shoebrush and dauber	401	39
Woodworking machines		
Pollinating	47	1.41
Pollution		
Decreasing, & environmental impact	422	900*
Polo		
Ball	273	58R
Mallets	273	67R
Pony boots	36	111
Polyacrylyl (See Synthetic Resin or Natural Rubber)		
Fiber dyeing	8	
Safety glass employing	428	442
Polyamides (See Synthetic Resin or Natural Rubber)		
Fiber dyeing	8	
Processes of molding	264	DIG. 61
Polyarylmethyl Compounds	552	101+
Amines	564	315+
Ketones	568	332
Carboxylic acids	562	460
Polybenzanthronyl	552	273
Polycarbodiimide (See Synthetic Resin or Natural Rubber)		
Polycarboxylic (See Type Compound)	260	
Acyclic	562	590+
Acyclic esters	560	190+
Alicyclic esters	560	127
Anhydrides	549	231+
Aromatic esters	560	76+
Polymers derived from (See synthetic resin or natural rubber)		
Polychlorinated Biphenyl(pcb) Removal	208	262.5
Polycycles	280	282
Polycyclic Hydrocarbons		
Alicyclic synthesis	585	360
Aromatic synthesis	585	400
Polyelectrolytes	252	62.2
Polyelectrolytes	429	188+
Electrolytic chemical processes	204	
Polyepoxide		
Polymers from (See synthetic resin or natural rubber)		
Polyester		
Fiber dyeing	8	
Fibers	8	DIG. 4
Polymers from (See synthetic resin or natural rubber)		
Polygon	33	482
Polygonal Turning and Cutting		
Broaching	409	243+
Drilling and boring	82	1.2+
Wood square hole	408	30
Milling	409	79+
Planing	409	289+
Turning	82	18
Wood	142	2+
Wood		
Polygonal cutters	144	224+
Shaping	144	138
Polyhydric Alcohol	568	852+
Carbohydrates	536	1.1+
Ethers	568	672+
Fermentative production	435	158+
Polyimide		
Polymers from (See synthetic resin or natural rubber)		
Polymer		
Dissolver	422	901*
Liquid hydrocarbon	585	17+
Synthesis	585	502+
Low molecular weight hydrocarbon polymer containing composition	106	901*
Replacing hard animal tissue	528	950*
Solid synthetic resin or natural rubber (See synthetic resin or natural rubber)		
Polymerization (See Compound Produce)		
Addition (See also synthetic resin or natural rubber)	526	59+
Apparatus for	526	920*
Aftertreating	252	182.11+
Crosslinking	252	182.11+
Curing	252	182.11+
Fatty oils	260	407
Hardening	252	182.11+
Hydrocarbon synthesis, cyclic		
Alicyclic	585	360+
Aromatic	585	422+
Aromatic cyclic	585	415+
Monomer polymerized in presence of transition metal containing catalyst (See catalyst)		
Olefin, fiber dyeing	8	
Photo image	430	269+
Precursors	252	182.11+
Utilizing electric, radiant		
Within nuclear reactor	376	
Utilizing wave energy	522	1+
Vulcanizing	252	182.11+
Polymixins	530	319
Polyolefin	8	DIG. 9
Polyolefin-type foam		
Injection molding	264	DIG. 83
Polyp Removal Devices	606	110
Polyphase		
Current meters	324	107+
Polyphenylene Oxide (See Synthetic Resin or Natural Rubber)		
Polypod		
Breakwater	405	29
Polypropylene		
Molding foamed articles	264	DIG. 16
Polysaccharides	536	1.1+
Heteropolysaccharides	536	123
Polysulfide	423	511+
Fatty oils	260	399
Organic	568	21+
Resins (See synthetic resin or natural rubber)		
Polysulfone (See Synthetic Resin or Natural Rubber)		
Polyurethane		
Cellular product	521	159+
Filters in gas separation	55	DIG. 13
High resiliency or cold cure	521	904*

	Class	Subclass
Nonstructural laminate	428	423.1
Nontextile dyeing	8	515
Radiation sensitive binder	430	906*
Stock material	428	160
Synthetic fiber dyeing	8	926*
Synthetic resins with solvent		
Alcohols	524	379*
Hydrocarbons	524	474*
Phenols	524	323*
Terminal ethylenic unsaturation	525	920*
Tire or tube tread or carcass	156	128.1
Wave energy preparation or treatment	522	1*
Polyvinyl Acetals	525	61
Safety glass employing	428	437
Pom-pom Gun	89	126
Pompom (See Tassel)	428	4*
Pontoons		
Buoys	441	3
Landing platforms	114	258
Salvage	114	44*
Pool		
Billiard game		
Ball	273	59R
Cues	273	68*
Tables and accessories	273	2*
Glass heating furnace	65	336*
Swimming, purification		
Process	210	749*
Purification	210	169
Solar heated	126	415
Swimming-type nuclear reactor	376	174
Swimming-type nuclear reactor	376	361
Swimming-type nuclear reactor	376	403
Popcorn		
Machine	D 7	325
Poppers	99	323.5
Presses	425	406*
Sheller	460	
Popgun	124	63*
Design	D21	146*
Popsicle T M Forming Machine	425	DIG. 219
Porcelain		
Compositions	501	141*
Electric insulating	501	141
Shaping processes	264	
Pore Forming or Porous		
Compositions	106	122
Abrasive	51	296
Alkali metal silicate ctg	106	601*
Cement hydraulic setting	106	672*
Ceramic	501	80*
Glass	501	39
Metal casting	164	79
Molding	264	41*
Mortar mixer combined	366	10*
Processes	366	2*
Synthetic resin ctg (See cellular under synthetic resin or natural rubber)		
Wells		
Gravel placing means	166	51
Gravelling	166	278
Porous cementitious filter	166	276
Porous material screens	166	228
Pork	D 1	
Porosity Test	73	38
Porous Devices (See Pore Forming & Type of Device)		
Stock material, cellular layer layer	428	304.4
Porous Forming (See Cellular Under Synthetic Resin or Natural Rubber)		
Porphyrins	540	145
Port		
Boiler	122	6.5
Lifting or handling	52	122.1*
Shield mounted	109	58.5
Ship	114	173*
Valve seat	251	359*
Internal combustion engine	123	188S*
Rotary	251	314*
Portable Circular Saw	30	360*
Portable Houses	52	143*
Portfolio	190	900*
Design	D 3	30.1*
Locks	70	67*
Portland Cement		
Compositions containing	106	713*
Alkali metal silicate containing	106	601*
Refractory	501	124
Making processes	106	739*
Position Detectors Indicators and Markers	116	209*
Elevator	116	226
Electric	187	130*
Indexed printed matter	283	37*
Liquid level gauge	73	314
Optical measurement of	356	375
Global	250	206.1*
Local, of shaft position or	250	231.13*
Speed	250	231.13*
Railway switch stand	246	401*
Steering wheel	116	31
Train	246	122R*
Weaving shuttle	139	341*
Positive Feedback Amplifier (See Regenerative, Amplifier)		
Post (See Column; Mast; Pole)	52	720*
Architectural, design	D25	126*
Bearing	114	169
Binding electrical	439	775*
Drilling machine	408	236
Drivers	175	
Continuous push	254	29R*
Impact	173	90*
Electrical conductor	174	45R
Hitching	119	122*
Design	D30	154
Jacks	254	30*
Kiln furniture	432	253*
Lamp or light combined	D26	67*
Light support	362	431
Railway	104	125
Rotatable machine element	74	504*
Scaffold	248	351*
Sign attachments	40	607
Static mold	249	51
Steering	74	492*
Tool	82	162
Top	52	301
Bed	5	281
Tower	52	648
Transmission tower	D25	126*
Velocipede	280	281.1*
Violin sound	84	277
Window corner	52	282
Postal Card or Packet	229	92.8
Design	D19	1*
Posthole Digger		
Implement	294	50.6*
Machine	175	
Pot (See Bowl; Jar; Kettle; Pan)		
Burner	431	331*
Chamber	4	479*
Coffee	99	279*
Coffee or teapot strainers	210	473*
Receptacle spout attached	210	466*
Cooking container	D 7	354*
Dash (See dashpot)		
Fire pot thermostats	236	104
Flower	47	66*
Design	D11	143*
Furnace and metallurgical		
Fire pot	126	144*
Fire pot thermostats	236	104
Glue pot heater	126	284
Material heating furnaces	432	156*
Material heating holders	432	252*
Metal melting and casting	164	335*
Solder pot heater	126	240
Glue heating	126	284
Holder	16	116R*
Liquid heating	126	373*
Railway rail supports	238	110*
Railway signals	246	475
Vulcanizing	425	283
Potassium (See Alkali Metal)		
Chloride dissolver	422	902*
Potato		
Chip machine	99	403*
Slicing combined	99	353
Chips	426	637
Digger	171	
Masher	241	
Implements	241	169.2
Picker and hopper	221	213*
Planters	111	908*
Preservation	426	321*
Canning	426	321*
Coating	426	289*
Compositions	426	637*
Dehydration	426	471*
Refrigeration	426	524
Washing machines	15	3.1*
Potential		
Regulators for dynamos	322	28
Potentiometer	338	68
Potentiometric Electrode		
Assembling apparatus for making	29	729
Chemical analysis, apparatus	422	82.1
Current generating thermometer with	374	179
Galvanometer with	324	98*
Structure	338	68*
Systems	323	364
Testing	324	714
Pothead	174	748*
Fluid or vacuum type	174	19*
Potted Antenna	343	873
Potted Electrical Device	361	331
Pottery		
Extruders	425	289*
Molds	425	406*
Potters wheels	425	263*
Potters wheels	425	459
Potting Electrical Device	264	272.11
Pouch (See Bag; Satchel)		
Animal attachment for manure	119	95
Colostomy	604	332*
Diaper having	604	348
Key containing	206	37.1
Tobacco	D27	185
Poultry		
Butchering	17	11*
Husbandry	119	
Design	D30	
Litter	119	1
Pouncing Net Machines	223	20
Pounder		
Meat	17	30*
Textiles fluid treatment	68	215*
Pouring		
Articles with pouring spout	D 7	312*
Automatic weigher discharge	177	115
Dispenser	222	
Receptacle filler	141	
Powder (See Coating; Dispensing; Distributing)		
Ammunition powder bags	102	282
Ammunition powder forms	102	283*
Baking	425	526*
Cans	220	
Dispensing	222	
Coating composition ctg synthetic resin or natural rubber (See also 524-904)	525	934*
Comminuted metal	75	331*
Cosmetic	424	69
Compact	D28	78
Design	D28	8
Dispenser	604	58
Duster aircraft borne	244	136
Duster insect killing	239	
Dye	8	524*
Engine driven by	123	24R
Engine starting with	123	183
Explosive compositions	149	
Explosive thrower	126	269
Fluent solid applier pocketed, eg powder puff	401	200*
Formed by electrolysis	204	10
Fusing and spraying	239	79*
Insect	424	
Marking ground with	111	26
Medicator for applying	604	58
Metallic powder containing trunks	106	403*
Metallurgy		
Briquetting apparatus	425	78*
Comminuted metal	419	
In blank	428	546*
In laminated blank	428	548*
Heat treating, other than sintering	419	31
Making powders	75	343*
Pressing powder with other steps	29	DIG. 31
Sintered stock materials	75	228*
Sintering	419	
Sintering then working	419	28
Paper folder for containing	493	948*
Photographic developer	430	499
Powdered fuel	44	500*
Puff		
Box, cosmetic	206	823*
Design	D28	91

	Class	Subclass
Machine for stitching	112	121.24
Sintering		
Metals	419	
Non-metals	264	56*
Non-metals	264	319*
With electric heat	219	149
Toilet kit, powder & puff	401	126*
Toilet kit, toilet article eg.	132	293*
Mirror included	132	301*
Train		
Compositions	149	14*
Firecrackers	102	361
Fuses	102	275.1*
Fuses blasting	102	275.1*
Pyrotechnics	102	360
Powdered Fuel Burning		
Fluid fuel combined	110	261*
Furnace structure	110	263*
Metal containing composition	149	37*
Metal cutting processes	148	9R*
Apparatus	266	48
Powdered fuel feeders	110	104R*
Shavings and sawdust	110	102
Water tube boiler combined	122	235.11
Power (See Engine; Motor; Device Operated)		
Alternate manual operator	74	625
With planetary gearing	475	3*
Amplifier pentode	313	300
Delivery interrelated control	192	
Factor control	323	205
In lamp or electronic tube circuit	315	247
Measurement	324	83R*
Hammer	173	90*
Forging	72	
Measurement	73	862 3*
Pack		
Conversion system	363	
Radio receiver combined	455	343
Plants (See engine; motor)	60	
Aircraft	244	53R*
Dynamoelectric	290	
Heating system combined	237	12.1*
Internal combustion engine combined	123	3
Testing	73	112*
Stop control	192	116.5
Storing dynamos for equalizing loads	322	4
Supply		
Combined with amplifier	330	199*
Combined with push pull amplifier	330	123
Control with amplifier	330	127*
Control with push pull amplifier	330	123
Or regulation systems	323	
Polyphase with amplifier	330	113*
Supply vibrator	307	150
Inverter system	363	110
Tables and stands	74	16
Take off	74	11*
Crane	212	172
Vehicle (See motor vehicle; land vehicle)	180	
Locomotive	105	26.5*
Marine propulsion	440	
Occupant propelled land vehicle	280	200*
Railway propulsion system	104	287*
Ship	114	
Soil working implements combined	172	
Trackmans car	105	86*
Traction systems	104	165*
Truck ladders	182	127
With erection means	182	63*
Power Transmissions		
Electricity	307	
Miscellaneous space	307	149
To a radio receiver	455	343
Practice Devices		
Barrels for ordnance	89	29
Baseball	273	26R
Cartridges	102	444*
Drop bombs	102	395
Golf	273	35R*
Mines	102	401
Projectile	102	529
Shell	102	498
Telegraphy	178	115
Practicing		
For music	84	470R*
Exercising devices	84	465*
Praxinescope	352	102
With sound accompaniment	352	2
Precious Stones		
Changing colors by beams of light	250	
Producing synthetic	501	86
Compositions	501	86
Working	125	30.1
Precipitation (See Decanter)		
Actinide series compound	423	249*
Electrical		
Distillation processes including	201	19
Distillation processes including	203	40
Electrophoresis	204	180.1*
Gas separation	55	101*
Separation or purification	204	186*
Hydrometallurgy	75	711*
Leaching metals combined apparatus	266	101
Liquid purification or separation	210	703*
Metallurgical apparatus	266	170
Sacchariferous solution		
Impurities	127	48*
Sucrose	127	47
Suspended matter in marine environment	405	74
Precoating Filter for Liquids	210	777
Apparatus	210	193
Precompressing (See Prestress)		
Preconditioning		
Electrophotographic photoreceptor	355	211*
Prednisolone	552	576
Prednisone	552	576
Prefabricated Housing	52	
Design	D25	35*
Subenclosure	52	79.1*
Preform	428	542.8
Pregnancy, Fertility	436	510*
Pregnandiol	552	609
Pregnanes	552	557*
Pregnanolone	552	609
Pregnenolone	552	606
Preheaters		
For boiler feed water	122	412*
Preselector Amplifier	330	
Preservers Life	441	80*
Aquatic lifesaving devices	441	80*
Buoyant devices	441	88*
Vests	441	106*
Design	D21	238
Racks for	114	190
Preserves	426	639
Butters	426	616
Preserving & Preservation (See Material Preserved)	422	
Agents	252	380*
Alcohols	568	701*
Antiseptic composition	424	
Canning	426	392*
Closing	53	285*
Cooking after filling	99	359*
Filling	141	
Filling and closing	53	266R*
Precooking and canning	99	356
Channels for water control	405	15*
Corpse	27	11
Egg preserving apparatus	99	485*
Ethers	568	580*
Fats and oils	260	398.5
Fermentation yeasts	435	
Foods	426	321*
Agent other than organophosphoride	426	654
Color treating	426	262
Fat or oil product	426	610
Product having food preserving agent	426	133
Surface coating of solid food with a liquid	426	310
Halocarbons	570	102*
Hydrocarbons	585	1*
With non-hydrocarbon additive	585	2*
Hydrogen peroxide	423	584
Latex		
Synthetic resin or natural rubber (See class 523, 524)		
Natural rubber latex	528	935*
Preserved artifact	428	542.4
Rubber	524	
Textile treatment	8	490
Press	100	
Apparel	223	52*
Arbor	29	251
Auto body crushers	100	901*
Automatic guards	192	134
Billiard cue	273	71
Binding	100	1*
Box making	493	52
Can crusher	100	902*
Compacting ensilage with silo	100	65*
Computer controlled, monitored	364	476
Concurrent pressing & conveying	100	144*
Conveyer combined	100	144*
Cooker combined	99	349*
Design	D15	123
Die cutting and punching		
Die processes and machines	83	
Sheet and bar punching	83	
Die expressing	425	381.2
Drain means for expressed liquid	100	104*
Dryer	34	143*
For arc light electrodes	425	113*
For nailing and stapling	227	
General purpose	100	
Glass	65	305*
Laundry iron	D32	9
Leather	69	48
Crease impressing	69	2
Forming combined	69	8
Seam	69	7
Lid applying	53	287*
With compacting of contents	100	54*
Macaroni	425	289*
Magnetic	100	917*
Material triggered control	100	43*
Materials treatment combined	100	70R*
Meat		
Briquetting	17	32
Tenderers	17	25*
Metalworking	72	
Assembling and disassembling	29	700*
Die cutting	83	
Draw	72	347*
Drill	408	
Drill press combined	29	26R*
Extruding	72	253.1*
Indirectly	72	253.1
File cutting	76	19
Methods	100	35*
Miscellaneous structure	100	214*
Punch	83	651*
Molding		
Bread, pastry and confection	426	496*
Bread, pastry and confection	425	98*
Bread, pastry and confection	425	238*
Computer controlled, monitored	364	476
Concrete, etc., blocks	425	253*
Concrete, etc., blocks	425	356
Cork or bung tapering	144	284
Foundry molds	164	37*
Glass	65	305*
Glass blowing and	65	229*
Metal forging	173	
Plastic block and earthenware	425	
Shoe heel	12	48
Shoe sole blank	12	21
Shoe sole laying	12	33*
Paper pulp	162	396*
Paper web forming	162	358*
Particulate material	100	
Peat	44	630*
Pelleter	100	903*
Platens or pressure surfaces	100	295*
Plural diverse presses	100	137*
Plural presses	100	193*
Portable receptacle lid applying	100	54*
Printing	101	
Design	D18	36*
Reciprocating press construction	100	214*
Scrap paper	100	914*
Sectional chamber filter	210	224*
With means to add treating material	210	204
Sewing machines		
Elements	112	235*
Leather type	112	60*
Tennis racket	273	74
Textile ironing or smoothing	38	
Truss presses	100	913*
Woodworking		
Bending	144	256.1*
Cork and bung	144	284
Cork or bung tapering	144	284
Feed and presser devices	144	252R*
Glue applying combined	156	
Methods	144	381

	Class	Subclass
Veneer	156	580+
Pressure		
Aircraft pressure maintenance	98	1.5+
Balancing within packing assembly	277	3
Bonding		
Cold weld	228	115+
Electric weld	219	78.1+
Compensating, support	248	901*
Compensator and conduit combined	138	26+
Cooker	220	
Automatic electric control	99	330
Design	D 7	358
Electric	219	440
Distillation under	203	73+
Distillation under	203	91+
Equalizers (See pulsation devices)	138	26+
Plural valves	137	629+
Pump	417	540+
Feed		
Burner	431	
Conveyers	406	
Dispensing	222	394+
Lubricators	184	57+
Metal casting machine	164	303+
Pneumatic dispatch	406	148+
Sprinkler or sprayer	239	
Filter	210	348+
Closed circulating system	210	167+
Sectional chamber pressure type	210	224+
With pressure responsive by-pass	210	130+
With pump	210	416.1
Fluid actuator or operator (See device operated, fluid operated motor)		
Fluid pressure regulator	D23	235
Gas content testing	73	19.5
Gauge	73	700+
Calibrating	73	4R
Design	D10	85+
Gun	124	56+
Heat exchanger control	165	13
Mineral oils	208	357+
Mineral oils	208	366+
Regulator and control (See fluid pressure regulator and device associated therewith)		
Aircraft cabin	98	1.5
Boiler feed	122	452
Brake	188	105+
Brake system	303	
Concentrating evaporator	159	2.1
Dispensers	222	
Distillation column	202	160
Electrical separation of liquids	204	306
Electrolytic cell combined	204	229+
Fermentation processes	435	3
Fire extinguisher	169	5+
Fluid heater	236	24.5
Gas distributing system	48	191
Inhaler	128	204.18+
Organ	84	356
Piano	84	39+
Pneumatic conveyer	406	12
Pump	417	279+
Resilient tire	152	415+
Testing	73	4R
Thermostat combined	73	199
Volume or rate of flow meters combined	73	199
Water heating system	237	65
Water purification by chemical feeders	137	98+
X ray electrical system	378	108+
Relieving devices		
Degasifying apparatus	55	189+
Degasifying process	55	55
Fluid	137	455+
Gas separator combined	55	309+
Marine mine	102	412+
Shaft packing	277	29
Testing and calibrating	73	4R
Responsive loading means for joint packing	277	27
Tanks or chamber, high pressure (See gas, holder)	220	3
Fire extinguisher	169	71+
Gas	48	174+
Inhalers	128	203.12+
Thermolytic	201	35
Valve, pressure relief	137	455+
Reducing, regulating pressure	137	505+
Prestressed Structures	52	223R+
Facing sheet	52	222
Pretzel	D 1	120
Slip	425	323
Prevention (See Anti)		
Bank robbery	109	2+
Body catching rebound	182	137+
Button loss	24	90.5
Cable sag, endless	254	388
Condensation ice and frost		
Aircraft	244	134R
Coating compositions	106	13
Compositions	252	70
Plants	47	2
Trolley	191	62
Window	52	171+
Window by ventilation	98	2
Corona	174	127
Fire prevention	169	
Receptacle attachment	220	88.1+
Textile treating apparatus	68	209
Fraud or alteration		
Check controlled apparatus	194	302+
Coating	427	7
Locks	70	416+
Leakage from gas pipes	48	194
Lost motion		
Gearing	74	409
Piano motion	84	222+
Magnetic compass deviation	33	356+
Nuclear reactor damage	376	277
Offset in printing	101	416.1+
Overwinding		
Clock and watch key	81	467
Clocks and watches	368	209
Composite motor	185	13
Spring motor	185	43
Weight motor	185	35
Railroad coupling vertical disengagement	213	153
Register overthrow	235	131R
Safe breaking	109	26
Scale	29	81.1+
Secondary radiant emission	313	106+
Skate retrogression	280	11.21
Switches		
Arc	200	144R+
Overfusing	337	225+
Unauthorized use	200	43.1+
Locked actuator	200	43.11+
Removable actuator	200	43.4+
Type casting squirt		
Integral line	199	53
Separate type	199	90
Preximoscope	352	102
With sound accompaniment	352	2
Prick Punch	30	366
Sheets or bars	30	366
Pricker for Fruit	83	
Pricking Shoe Soles	83	
Primary Battery	429	122+
Prime Mover Dynamo Plants	290	
Primer and Priming		
Explosive	102	200+
Ammunition making with	86	32
Cartridge combined	102	470+
Layers or zones	149	14
Internal combustion engine	123	187.5 R
Pump	417	435
Rotary	415	11
Primuline Azo Compounds	534	800
Printed Electric Circuits	361	397+
Making		
Combined in an amplifier	330	66
Mechanical manufacture	29	829+
Photo chemical etching	430	311+
Stock material	428	901*
Printed Matter (See Books, Printers & Printing)	283	
Books, strips, & leaves	281	
Circuit stock	428	601
Printers and Printing	101	
Annular typewriter	400	112+
Antismut devices	101	416.1+
Bag printing and making	493	187
Bed & platen machines	101	287
Braille	101	3.1+
Typewriter	400	122+
Bread pastries lozenge cutting combined	425	289+
Calculator combined	235	58P+
Record controlled	235	432
Check printing cash register	235	3
Cigar or cigarette making	131	284
Cleaning attachments	101	425
Coating combined		
Nonuniform coating processes	427	256+
Coating implements & material supply	401	
Coin-controlled print machines	101	DIG. 44
Color forming phenomenon	101	DIG. 29
Combined with laminating apparatus	156	384+
Methods	156	277
Contact photographic	355	78+
Control by code on plate	101	DIG. 46
Convertible printing press, eg, lithographic to letter press	101	DIG. 49
Cylinder	101	
Inkers	101	353+
Photo process making	430	300+
Revolving, print on	101	DIG. 39
Work support grippers	101	409+
Data processing equipment	D14	111
Devices hand	101	368+
Drying flexible sheets and webs	34	151+
Duplicating machines	101	113
Electrostatic force	101	DIG. 37
Endless printing belt	101	DIG. 48
Envelope printing and making	493	187
Equipment, design	D18	13+
Paper cutters	D18	34
Stapling machines	D18	34
Golf ball, print on	101	DIG. 4
Ink	106	20+
Agitated in reservoir	101	DIG. 34
Axially reciprocating rollers	101	DIG. 38
Thickness or density sensor	101	DIG. 45
Transfer using one or more belt	101	DIG. 33
Inkers	101	335
Intaglio	101	150
And other printing means	101	DIG. 43
Key or wheel		
Time recorder	346	80+
Typewriter	400	165.1+
Leads		
Cutting and punching	83	
Fillers	101	402
Handlers	276	34
Lineup table	33	614+
Lithographic	101	130+
Member	101	368+
Collocating or aligning	33	614+
Electrodeposition	204	6
Localized area electrolytic etching	204	129.1+
Localized area plating	204	17
Numbering machine	101	84+
Selective or progressive	101	109+
Selective or progressive with inker	101	103+
Type setting and distributing machine	276	4
With inker	101	327+
Metal leaf applied	101	DIG. 31
Metering blade position, automatic or remote control of	101	DIG. 47
Multicolor	101	171
Offset		
Bed and cylinder	101	251+
Intaglio	101	154
Multicolor	101	177
Planographic multicolor	101	137
Rotary	101	217
Rotary and bed cylinder	101	215
Rotary planographic	101	142+
Smut prevention	101	416.1+
On cloth by photography	430	
Overlays and underlays (See make-ready)		
Paper disc closure making	493	962*
Photographic	355	
Planographic	101	130
Plate alignment on press	101	DIG. 36
Plate etching	156	625
Powderless	156	640
Plate making or etching	156	905*
Press attachment cutting		
Punching	83	
Rotary cutter	83	331+
Projection photographic	355	18+
Quoins	254	40+
Reflex photographic type	430	395
Rollers and track	101	DIG. 35

	Class	Subclass
Rolling contact machines	101	212
Rule cutting	83	927*
Rules	83	
Sheet folding, associating and	270	1.1*
Silk screen	101	114*
Process	101	129
Sorting &	101	2
Special article machines	101	35*
Article controlled operation	101	DIG. 3
Stenciling	101	114*
Stereotype printing plate	409	901*
Stick	276	38*
Collocating	33	614*
Surface	101	453*
Electrodeposition	204	6
Localized area electrolytic etching	204	129.1*
Localized area electroplating	204	17
Photographic preparation	430	300*
Telegraph	178	23R*
Automatic	178	4
Textile process and compositions	8	445*
Typecasting	199	
Typesetting	276	
Typewriter printing point indicator	400	709
Typewriting machines	400	
Web tensioning	101	DIG. 42
Weigher sets type	177	13
Prism		
Building lights	350	258*
Making by moulding	65	
Optical	350	286*
Telescope	350	569
Prison Bathrooms	4	DIG. 15
Privy, Building Unit	D25	16
Probing	606	106
Probes Magnetic	600	11
Probes Radioactivity	250	472.1
For use with fluids	250	336.1
Geiger muller tube	313	93
With circuit	250	374*
Miscellaneous	250	336.1
Neutron detector type	376	153*
With circuit	250	390.1*
Scintillation	250	361R*
Procaine	560	49
In drug	514	535
Process Motion Picture Photography	352	38*
Prod		
Animal	D30	156*
Electric	231	7
Producer Gas	48	
Boiler combined	122	5
Combustion furnace combined	110	229*
Profile (See Pattern; Pattern Control)		
Cutter for turning	407	
Lathe employing	82	13
Measuring	356	376*
Optical tester or comparer	356	391*
Proflavine	546	104*
Progesterone	552	607
In drug	514	177
Program (See Pattern Control)		
Burner	431	18*
Clock alarm	368	246
Electric circuit maker & breaker	200	19A*
Retarded	200	33R*
Feeding devices for animals	119	51.13
Fluid handling	137	624.11*
Furnace, solid fuel	110	191*
Heat exchange	165	12
Heating and cooling	165	12
Liquid purification or separation	210	141*
Machine mechanisms trips	74	3.52
Memorandum holders	368	42
Nuclear reaction combined	376	217
Refrigeration	62	157*
Sewing machine	112	121.11*
Sighting	33	229*
Signaling or indicating	116	22R
Code	116	18
Electric lights, matrix	340	780
Electric lights, monogram	340	760*
Electrical	340	309.4*
Electrical code	341	173*
Electrical traffic control	340	907*
Sprayer	239	69
Valve	137	624.11*
Programmable		
Aircraft control systems	244	76R*
Digital computer system, general	364	200
Digital data processing systems special	364	900
Programmed Control		
Assembling machine	29	701
Boring or drilling machine	408	3
Conveying apparatus	198	349*
Cutting machine	83	76.1*
Furnace, solid fuel	110	191
Heating apparatus	432	51
Metal deforming machine	72	7
Metal-fusion bonding	228	7
Metal-fusion bonding	228	102
Metallurgical apparatus	266	59
Metallurgical apparatus	266	96
Selective punch machine	234	13*
Electrical code	341	173*
Toy vehicle	446	436
Typewriter		
Carriage	400	279*
Case-shift	400	252*
Format	400	76*
Format and type selection	400	61*
Liner	400	17*
Sheet or web feed	400	582*
Type-face selection	400	70*
Web feeder	226	9
Projectiles		
Amusement devices, aerial	273	317*
Design	D22	115*
Explosive containing	102	473
Explosively propelled	102	501*
Fire escape	182	50
Flechettes	244	3.24*
Games		
Aerial	273	317*
Simulated missiles	273	313*
Surface	273	108*
Launched from toy vehicle	446	435
Lubricating	102	511
Making	29	1.2
Measuring and testing	73	167
Mechanical devices	124	
Shell or cartridge loading	86	
Stabilization	244	3.1*
Thrown detonating toy	446	400
Projection or Projector (See Thrower)		
Aerial projectile		
Catcher combined	273	318*
Target combined	273	348.1*
Comminution		
Centrifugal projection	241	275
Fluid	241	39*
Electric lamp	313	
Film	353	
Motion picture	352	233
Slide	40	513
Fire escape	182	50
Grenade		
Firearm combined	42	105
Hand	102	483*
Ordnance combined	89	1.1
Gymnastic	272	65*
Illumination		
Electric bulbs	313	
Electrophotographic	355	232*
Lantern	362	257*
Protector combined	362	317*
Reflectors	362	341*
Reflectors and refractors combined	362	327
Refractors	362	326*
Lantern slides	40	152*
Mechanical	124	
Microfilm printer		
Electrophotographic	355	232*
Microfilm reader	D16	225*
Motion picture	352	
Film winding	242	179*
Screen	350	117
Winding & reeling means	242	179*
Optics of image projection	353	
Photographic printing	355	18*
Photographic viewer	D16	221*
Railway mail delivery	258	5*
Screen	350	117*
Surface projectile	273	129R
Ball game combined	273	119R*
Vehicle fender		
Forward	293	24*
Side	293	21*
Weight reading	177	178
Prolamines	530	372
Compositions containing	106	149*
Zein	530	373
Prong and Pronged Devices (See Impaling; Point)		
Butchering hangers	17	44.3
Electrical connectors	439	
Electric plug	439	
Electronic tube base	439	611*
Lamp base	439	611*
Nails		
Heads	411	439*
Points plural	411	457*
Prontosil	534	676
Prontylin	564	86
Proofreading Devices	281	51
Prop (See Brace)	248	351*
Awning outriggers	160	45*
Bicycle	280	293*
Clothesline	248	353
Draft pole	278	87
Flower	47	44*
Ladders	182	165*
Collapsible	182	156*
Hinged extension	182	163
Separable extension	182	22*
Wheeled	182	16
Scaffolds building supported	182	87
Shocker	56	431
Thill support	278	85
Tree	47	43
Trunk lid	190	34
Propeller (See Impeller)	416	
Aircraft combined	244	62*
Stabilizing	244	92
Design	D12	214
Locomotive combined	105	66
Making, by milling	409	120
Power plant X-art	60	904*
Screws	416	176
Ship combined	440	
Buoyant	440	98*
Chain	440	95*
Oscillating	440	13*
Portable	440	53*
Reciprocating	440	13*
Screw	440	49*
Testing	73	147
Toy	446	36*
Airplane combined	446	57*
Propicillin	540	341
Propiolic Acid	562	598
Propionic Acid	562	606
Proportional		
Counter	250	374*
Geiger muller tube	313	93*
Radioactivity	250	336.1
Scintillation	250	361R*
Tube structure	376	153*
Feeding		
Automatic	431	90
Dispenser automatic control	222	57
Dispensing from nonserial traps	222	426*
Dispensing from plural containers	222	134
Dispensing from plural outlets	222	482*
Fluid distribution	137	87*
Gas & air mixer for burner	431	354
Automatic	401	90
Mortar mixer	366	16*
Mortar mixing process	366	8
Water purification	210	101
Measuring		
Flow meter	73	202*
Gauge point markers	33	663*
Proportional dividers	33	558.2
Proportioner, Rectangular	33	DIG. 9
Propulsion Devices and Systems		
Aircraft	244	62*
Ammunition and explosive devices		
Design	D22	112
Land mines	102	362
Propelling charge combined	102	374*
Pyrotechnic rocket	102	347*
Electric of railway cars	104	288*
Land vehicles		
Convertible	280	7.15*
Runner	280	12.1*
Simulations	280	828*
Skates	280	11.115
Wheel propelled	280	3
Wheeled	280	200*
Marine	440	
Manual power	440	21*

	Class	Subclass
Motor vehicles	180	
Propellers	416	
Railway		
Cable	104	173.1*
Car	104	287*
Locomotives	105	26.5*
Switches and signals	246	
Reaction motors	60	200.1*
Store service		
Cable propulsion systems	186	14*
Self propelled car systems		
Single impulse systems	186	8*
Prospecting (See Measuring; Testing)	73	151*
Acoustic vibratory or seismic wave (See seismographs and seismometers)		
Chemical analysis with		
Apparatus	422	50*
Methods	436	25
Earth boring combined	175	58*
Electrical	324	323*
Radar	342	191*
Neutron using	250	253*
Radiant energy	250	253*
Radioactive using	250	253*
Sound using	181	
X ray using	250	253
Prosthetic Resector (See Resector)		
Prosthetic Article, Design	D24	33
Prosthetic Article, Utility	623	
Prostaglandin Acids	562	503
Esters	560	121
Protection (See Cover; Fender; Prevention)		
Against earth currents for electric railways	204	
Against radiation damage	376	277
Antiabrasion or protective layer	430	961*
Arm guard	D29	20
Baking food	126	22
Barrel bung	217	114
Bonnets for animals	54	80
Book	281	20
Building	52	
Animal blocker	52	101
Coating	52	515*
Earth quake	52	167
Earth supported coping	52	102
Exterior flashing	52	58*
Marker or monument	52	103
Metal monument markers and guards	52	102*
Pole shell	52	727*
Safes and banks	109	
Snow stop	52	24*
Tubular edger	52	244
Window	52	171
Burner heat protector	431	350
Automatic	431	23
Casings		
For cigars	206	242*
For watch movements	206	18
Clock key with dust guard	81	123
Closure edge	49	462
Collapsible steering post	280	777
Drill rod		
Applying wall protector to	29	236
Guide or slide bar	175	325
Electric devices		
Anti-inductive structures	174	32*
Arc lamps liquid electrode	313	164
Circuit breaker arc	200	144R*
Conductors and insulators	174	
Connector cord terminal	439	135*
Demagnetizing	361	267*
Discharging static charges	361	212*
Implosion of tubes	445	8
Lightning arrester	361	117*
Lightning arrester and thermal current switch	337	28*
Lightning conductors	174	2*
Lightning rods	174	3
Meter circuit	324	110
Plural terminal insulator rod type	174	179
Railway right of way	246	121
Ray energy shields	250	515.1
Safety systems	361	1*
Shock hazard	174	5R
Signal box key	340	302
Signal system circuit maintenance	340	292
Telegraph system circuit maintenance	178	69R
Telephone	379	412*
Anti-inductive devices and systems	379	416*
Thermal current switch arc	337	273*
Third rail	191	30*
Track connections	238	14.5*
Trolley rope	191	71
Voltage distribution regulator	191	2*
Erosion	405	15*
Eye and face guard	D29	17*
Fiber protecting during fluid treatment	8	133
Color	8	685
Fire escapes with fire protection	182	47
Fluid	182	51
Fly nets for animals	54	81
Garment and body part		
Apparel type	2	2*
Aprons bibs shields etc	2	46*
Design	D 2	225*
Arm guard	D29	20
Back and chest safety	2	92
Design	D29	10*
Baseball gloves	2	19
Design	D29	21
Boxing gloves	2	18
Buttonhole	24	659*
Eye and face	D29	17*
Garment protectors	D 2	225
Goggles	2	426*
Design	D16	102*
Hand	D29	20
Head protectors for permanent waving	132	243*
Headwear	D 2	509*
Helmets	2	6
Design	D29	12*
Leg guard	D29	10*
Leggings and gaiters	36	2R
Design	D 2	267
Leggings stocking type	2	242
Overshoes	36	7.1 A*
Design	D 2	271
Shirt bosom	2	120
Shoe, boot, and legging	36	72R*
Skirt edge	2	222
Slippers inside shoe	36	10
Spats	36	2R
Stocking heel from shoe	36	55
Trouser	2	231*
Trouser guards and straps	24	72
Wringer release	68	256*
Hand guard or glove	D29	20*
Headware & helmets	D29	12*
Heat exchanger	165	134.1
Heating system parts freezing	237	80
High voltage for electric apparatus and conductors	361	1*
Horse		
Boots	54	82
Shoes	168	
Hose against abrasion or bending	138	110
Jacket engine freezing	123	41.1*
Leg guard	D29	10
Light modifiers and combined	362	317*
Lightning	361	117*
Marine structure	405	211*
Metals	422	7
Casting device safety	164	152
Molten metal oxidation prevention	75	709
Object against corrosion by electrical neutralization	204	147*
Electric current apparatus	204	196*
Magnetic apparatus	422	186.2
Oxen		
Shoes	168	5
Padlock	70	54*
Pencil sharpener and point		
Piano case	84	183
Piles	405	211*
End caps	405	255
Pipe ends	138	96R
Pipe pressure compensator with freeze protector	138	27
Pipe thawing and freeze protector	138	32*
Protective coating compositions	252	381*
Removable	427	154*
Protectors	30	460
Railway car heating stove	126	57
Roadway		
Curbs or corners	404	7*
Railway automatic switch traffic protected	246	330
Railway crossings signals and gates	246	293*
Railway drawbridge	246	118*
Railway grade crossing	246	111*
Railway right of way defect	246	120*
Railway switch snow protected	246	428
Railway track fastener boxes etc.	238	312
Third rail	191	30*
Traffic barrier	404	9*
Traffic guides	404	6*
Vault cover	404	25*
Safe	109	
Safety power stops	192	129R*
Spinner traveler	57	121
Systems for electric lamps	315	119*
Trolley operating rope	191	71
Trunk harness	190	26
Umbrellas	135	36R
Vehicle and parts		
Aircraft fuselage shields etc	244	121
Bumpers	293	102*
Car stove	126	57
Fenders	293	
Impact of collision	180	232
Mudguards, eg fenders	280	847*
Railway car	105	394
Tire chain link with	152	245
Vehicle wheel	301	37R
Windshield auxiliary	296	95.1*
Windshield deflected air currents	296	91
Watchcase	368	286
Antimagnetic	368	293
Weaving machine stop	139	336*
Wood against decomposition	252	380*
Proteins	530	350*
Albumin, protein	436	88*
Amino acid from	562	516
Fermentative purification of	435	68.1*
Foods containing	426	72*
Plastic and coating compositions	106	
Polymers containing (See synthetic resin or natural rubber)		
Single cell	435	804*
Proteins, Source Materials	530	820*
Prothrombin Time, pt	436	69*
Proton Detector		
Detector tubes	376	153*
Electric signalling	250	336.1
Non-electric signalling	250	472.1
Scintillation	250	483.1
Protoveratrine	546	34
Protractor	33	1R
Design	D10	65
With straight edge	33	424*
Provision Safes		
Evaporative cooling	312	31.1*
Ventilated	98	51
Provitamin d3	552	547
Pruning Implements	30	
Design	D 8	5
Prussian Blue	423	364*
Prussic Acid	423	364
Pseudocumene (See Aromatic Hydrocarbon)		
Pseudojervine	536	18.1
Pseralen, in Drug	514	455
Psychedelic Lighting	362	811*
Psychology	434	236*
Psychrometer (See Hygrometer)		
Pteridine, in Drug	514	249
Pterins	544	257
Public Address Systems	381	82*
Puddings	426	579
Puddlers Balls Working	29	15
Puff		
Hair puff or pompadour comb	132	106
Iron	68	5A*
Powder applying pocketed	401	200
Design	D28	91
Puffing		
Cereals	426	449*
Apparatus	99	323.4
Metals	75	415
Minerals	252	378R
Pull (See Push)		
Boot and shoe	36	56
Button or knob	16	121*
Ball	116	172
Drawer pull tag combined	40	325

	Class	Subclass
Switch	200	329*
Chain or rod		
Closure operator	292	
Dynamometer	73	862.38*
Exerciser	272	116*
Pulling devices	254	
Assembly apparatus	29	244
Bootjacks	223	114*
Disassembly apparatus	29	244*
Fuse	81	3.8
Hoist line implements	294	
Tack	12	16
Switches electric	200	519
Tab, container opening	206	633
Pull Offs		
Sewing machine thread	112	242*
Leather sewing	112	58
Pulley (See Wheels)		
Band saw		
Cleaners and lubricators	83	169
Block and tackle	254	390*
Design	D 8	360
Endless belt power transmission	474	
Grip	254	391*
Idle pulley bearing	384	417
Lathe combined machine for	29	29
Lathe for	82	117
Processes	29	892*
Shaft joint	403	
Sheave, reeling storage	242	47
Tension	242	155R
Pulp		
Bleaching of	162	1*
Bobbins and spools	242	118.32
Cop type	242	118.7
Dyeing of	8	
Fluid treatment of manipulative	8	156
Making	162	1*
Making comminutor	241	280*
Processes	241	28
Processes application of fluid combined	241	21
Stones	51	206R*
Molding of	162	
Testing freeness of	73	63
Pulpit Lectern	D 6	419
Pulpstones	51	206R*
Pulse		
Amplifier	328	53
Communications	375	
Detection	128	687
Generator	307	106*
By periodic interruption	307	132R
By regulatory interruption	307	96*
Slave oscillator	331	47
Light wave	455	608
Modulation	332	106*
Radio system	375	
Multiplexing	370	
Repeater or relay	370	97
Oscillator	331	
Pulsating current systems		
Supply for electron tube circuits	315	246
Telegraph	178	66.1
Therapeutic	128	421*
X ray systems	378	106
Pulsation devices	138	26*
Brake system	303	87
Filter cleaning by fluid	210	412
Liquid purification process	210	637
As treatment of liquid	210	748
Filter cleaning	210	785
Pump liquid	417	540*
Pulsator		
Milker	137	103*
Combined	119	14.1*
Motor		
Hydraulic, pneumatic	60	533*
Pump drive	417	383*
Radio system	375	
Telegraph, telephone system	375	38*
Repeater or relay systems	375	3
Pulverizer	241	
Furnace feeder having	110	106
Furnace, solid fuel combined	110	232
Pump	417	
Agitating	366	262
In vacuum	366	139
Bath closets & sinks combined	4	
Bearing lubrication	384	322*
Boiler cleaning	122	379
Brake system	303	10
Breast	604	73*
Casting apparatus combined	164	303
Centrifugal	415	120*
Chain	198	643
Cistern cleaner	210	207
Cleaning combined	15	3
Clutch	192	58R
Condenser combined	165	112
Container combined	222	372
Convertible to motor	417	237
Diverse energy input	60	712
Engine starting motor	60	629
Pneumatic transmission	60	407*
Convertible to other type pump		
Cooling of internal combustion engine	123	41.63
Design	D15	7*
Diaphragm, modern pumps	261	DIG. 37
Diffusion	417	152*
Dispensing	222	
Double acting internal combustion engine combined	123	62
Dredgers combined	37	58
Drinking fountain combined	239	24
Elevator combined	187	69
Filtration	210	416.1
Fire extinguishing apparatus combined	169	
Fluid pressure dispensing	222	401
By collapsible wall pump	222	209
Fluid transmission combined		
Internal combustion engine	60	597*
Turbine, with supercharging	60	598*
Pneumatic	60	329
Pressure fluid source & motor	60	325*
Fountain or trough	119	76
Fountain pen	401	143
Fumigator	43	125*
Gas and liquid		
Contact apparatus	261	
Gas dispensing	222	3
Gas separator combined	55	467
Getter	417	48*
Getter-ion	417	49
Grease gun	222	256
Heat exchange fluid circulating	165	121
Circulating for refrigeration	62	
Heat exchanger combined	165	120
Heating and illuminating gas mixer delivery	48	186
Hydrocephalus	604	8*
Infusion of body treating materials	604	151*
Intensifier	417	225*
Internal combustion engine combined	123	
Air or gas	415	
Internal combustion engine and fluid pressure motor	60	597*
Jack	74	41
Suction	417	
Jet type	417	157*
Jet type boiler tube blower	15	316.1*
Jet type in vacuum cleaner	15	408
Lubricating system	184	26
Magneto-hydrodynamic	417	49
Making	29	888.2*
Manual	D23	231
Medicator combined	604	151*
Milker	119	14.27
Minnow bucket aerator	43	57
Motor and	60	325
Punch card or computer control	60	368
Peristaltic	417	474*
Plastic filament forming	425	66
Plastic filament forming	425	67*
Plastic filament forming	425	76*
Plastic filament forming	425	382.2
Plural pump dispenser	222	255
Plural, diverse	417	199.1*
Pneumatic conveyers	406	96*
Pneumatic locomotive	105	63
Pneumatic piano	84	24
Pneumatic stackers	406	
Pressure fluid source & motor	60	325*
Puff, machine for stitching	112	121.24
Purification units	210	258
Regeneration	210	191
Receptacle filling	141	
Reed organ	84	355
Refrigeration with gas & liquid contact	62	314
Rotary expansible chamber	418	
Rotary kinetic fluid	415	
Service station fuel	D15	9.1*
Sonic	417	240*
Sprayer combined	239	302
Sprinkler system combined	239	
Sputter-ion	417	49
Steam heating system, air venting	237	68
Suction	415	
Tank for heat transfer with testing	73	168
Textile fluid treating apparatus	68	3R
Tire inflation pump	152	415
Two cycle internal combustion engine combined	280	201
Vacuum, rotary expansible chamber devices	418	
Vehicle carried sprinkler or sprayer	239	146
Vehicle combined	280	201
Ventilating in general	98	
Ventilation for baths closets or sinks	4	409
Liquid brake	188	266*
Water heating circulation	237	63
Well structure combined	166	105
Wrench combined	81	2
Punch and Punching	83	
Bag	272	76*
Board	273	139
Filling	53	235*
Making	493	374
Bolt or rivet heading	10	26
Book binder sheets	402	1
Opening reinforcement	402	79
Buttonhole	30	119
Can opener type	30	443
Closure type punch	220	278
Card controlled calculator	235	434*
Cards	235	487
In store service	186	56
Center or prick	30	366
Sheets or bars	30	366
Cutting combined	83	
Design of machines for	D15	128
Eyelet setting with	227	51*
Forging and punching machines	29	34R
Fruit seed removing	99	559*
Hole design	D 8	51
Horseshoe making combined with	59	36*
Implements	30	358
Machines	83	
Gauge work locator	83	268*
Gauge work locator	83	391*
Gauge work locator	83	467.1*
Metal dimpling and	72	412*
Paper punch	D19	72
Pattern controlled	83	76.1*
Gang	234	64
Selective	234	59*
Product manufacturing computerized	364	474.1*
Punch making	76	107.1*
Rasp punching	178	66.1
Refrigerant container opener	62	294
Safety guard machine stop	192	134
Screw head nicking	10	7
Selective	234	
Interposer	234	97*
Sheet metal pressing and	72	324*
Stoneworking	125	23.1*
Surgical cutting, tracheotome	606	185
Tire punching	29	22
Tufting sewing machine	112	80.1*
Wood cutters	144	196*
Wood disc cutting	408	204
Wood match making	144	50*
Workmens time keeper clock	346	49*
Puncture Closing or Healing		
Compositions for	106	33
Container	220	278
Heat exchange compositions combined	252	72
Repairing pipes	138	97*
Stock material	428	912*
Tires pneumatic	152	502*
Patches	152	367*
Processes of making	156	95*
Puncturing Devices (See Punch)		
Can opener type	30	443
Dispenser combined	222	80*
Fountain pen	401	132*
Penetrating, perforating	83	
Perforating & inking eg tattooer	81	9.2
Receptacle closing and	220	278

	Class	Subclass
Sheet retainer type	402	25
Surgical instrument	606	185*
Punts	114	343*
Pupin Coil	336	
With condenser	333	
With long line	178	45*
Puppets	446	363
Hand	446	327*
Purger, Refrigerant	62	474*
Automatic	62	195
Burner	431	29*
Burner	431	121*
Process	62	85
Purging Sugar Crystals	127	18*
Apparatus	127	20
Purification of Synthetic Resin or Natural Rubber	528	480*
Purification, Proteins	530	412*
Purifiers & Purifying (See Bleaching; Cleaner; Dehydration; Disinfection; Distillation; Evaporator; Extracting; Fermenting; Recovery; Sterilizing)		
Beneficiating ores	423	1*
Apparatus	266	168*
Gas	55	
Hydrocarbon purification	585	800*
Liquid	210	
Used oil	208	179*
Purines	544	264*
In drug	514	261
Purl Knit Fabrics	66	197
Purling Sewing Machine Stitch	112	161
Purpurin	552	261
Purses	150	100*
Coin	150	150*
Design	D 3	42
French purse	D 3	42*
Latch	D 8	331*
Push (See Pull)		
Button		
Electric switch	200	341*
Fluorescent	250	465.1
Mechanical bell	116	172
Carts	280	47.26*
Cutter	30	
Plate	16	1R
Pushing devices	254	
Rods or bars		
Closure operator	292	
Side track car	213	224
Push Pull Amplifiers	330	118*
Cascade type	330	71*
With distributed parameter coupling	330	55
With feedback	330	81*
Pusher (See Conveyer, Reciprocating)		
Blocks for saw logs	83	710*
Car pushing implement	254	35*
Check controlled article delivery		
Check connector	194	293*
Gravity forwardly turning part	194	262*
Gravity reciprocating part	194	260*
Thrust type	194	249*
Feed		
Check controlled article delivery	194	
Circular wood saw	83	707*
Combined with other types of conveyer sections	198	570*
Conveyer	198	717*
Drying kiln material	34	206
Furnace fuel	110	109
Label pasting strip server and cutter	156	510
Saw log	83	710*
Load discharging		
Fork tine or shovel clearers	294	50*
Furnace	414	214
Self loading vehicle	414	511
Vehicle, external unloader	414	395*
Locomotive track pusher	105	31
Plastic block press portable mold	425	453*
Railway car propulsion system	104	162*
Roadway snow plow V type	37	272*
Sled	280	14.2*
Stock to be machined	414	14*
Truckmans car drive	105	90.1*
Pythagoras or Spacer	182	229
Ladder combine	182	214
Scaffold wall embedded	182	87
Putting on		
Garments	223	111*
Coat accessory	2	101
Garment supporters	2	300
Putty		
Devices	425	458
Including putty supply	425	87
Removing		
Attachment, moving	15	256.5
Implement scraper	15	236.1*
Puzzle	273	153R*
Design	D21	104
Jigsaw type	428	33
Locks	70	289
Pvc-isocyanate Resins		
Molding cellular	264	DIG. 3
Pvdf	310	800*
Pycnometers	73	32R
Pyramidon	548	366
Pyrans	549	356*
Pyranthrones	552	282
Pyrazines	544	336*
Pyrazoles	548	373*
Acridine nucleus containing	546	26
Azo compounds	534	751*
Heavy metal containing	534	710*
Barbiturate addition compounds	544	300
Pyrazolone (See Pyrazoles)		
Pyrene (See Aromatic Hydrocarbon)	585	400*
Pyrethrum	560	124
Insecticides containing	514	65*
Pyridine	546	348*
Azo compounds	534	770*
Heavy metal containing	546	2*
Pyridium	534	605*
Pyridoanthraquinones	546	78
Pyridone	546	290
Pyridoxine	546	301
Pyrimidines	544	242*
Pyrocatechin	568	763*
Pyroelectric Lamps		
Structure	313	14
System of supply	315	359
Electric heater for	315	115*
Plural loads	315	114
Pyrogallol	568	763*
Pyrographic		
Burning tools	126	401
Electric	219	227*
Fuel	368	248*
Electric tools	219	227*
Hand tool spark	219	384
Machine spark	219	68*
Pens	219	229
Recorders	346	76R
Telegraph receiver	178	94
Textile finishing	26	3*
Pyroligneous Acid	562	607
Production of	201	
Pyrolysis (See Cracking)		
Acetylene production by	585	534*
Aromatic hydrocarbons by	585	476
Carbon preparation by	423	449*
Natural resins	530	200*
Rosin	530	226*
Pyromagnetoelectric Devices	310	306*
Pyrometallurgy	75	414*
Pyrometers	374	100*
Optical	356	43*
Radiation	374	121*
Thermoelectric	136	213*
Relay temperature regulation	236	69*
Pyromucic Acid	549	484
Pyrones	549	416*
Pyronine	549	388*
Pyrophoric Igniters	431	273*
Alloys	420	416
Correlated with burner feed	431	254
Tobacco product combined	131	351
With burner cover	431	146*
Correlated actuation	431	129*
Pyrophosphate Esters	558	152
Formation of	558	127*
Pyrotechnic		
Compositions	149	37*
Devices	102	335*
Flare	D22	112
Illusion amusement devices	272	20
Signals	102	335*
Detonating burglar alarms	116	83
Door fastener	116	11
Railroad torpedoes	246	486
Pyroxylin	536	35*
Apparatus	425	90*
Compositions	106	169*
Pyrrocolines	546	73
Pyrrolidine	548	579
Pyrroline	548	565
Pyrrols	548	400*
Quadrant		
Angle measurement		
Horizontal and vertical angles	33	281
Horizontal angle	33	285
Vertical angle	33	282*
Spinning mule	57	322*
Quadrasonic	381	19*
Quadruplex Telegraphy	370	34*
Quarrying	299	15
Quarter Wave Transmission Line	333	27
Quarters Shoe Blank	36	48*
Quartz (See Piezocrystals)		
Glass manufacturing	65	
Compositions	501	27*
Lamps	313	112
Mercury vapor	313	112
Quaternary Ammonium	564	281
Acyclic	564	291*
Aromatic	564	282*
Azo compound ctg.	534	603*
Quebrache Extract	560	68*
Descaling agent containing	252	83*
Tanning with	8	94.32
Aluminum compound containing	8	94.3
Queen Bee Cells and Cages	449	28
Quenchers and Quenching		
Coating cooling	427	398.3
Coke quenchers	239	750*
Distillation residues	201	39
Autothermic systems	202	95
Thermolytic apparatus	202	227*
Metal heat treatment proceses	148	143*
Metal heating and quenching	266	114*
Apparatus	266	121*
Metal quenching apparatus	266	114*
Still bottom closures	202	253
Question and Answer	434	322*
Correct answer indicated	434	327*
Electrical recording means	434	362
Examination card or sheet	434	363
Grading of response form	434	353*
Responses electrically communicate to monitor or recorder	434	350*
Quick Acting		
Fluid pressure brake systems		
Automatic synchronizing	303	37*
Motor releasing	303	69
Guns	89	125*
Portable wood working clamps		
Parallel screw	269	140*
U beam	269	
Quick setting portable rail drills	408	72R*
Quick traverse bobbin and cop	242	31
Cone	242	31
Winding	242	43R
Quick wheel release trolley heads	191	63.1
Quick Detachable		
Electric connectors	439	180
Plow elements	172	749*
Shaft coupling	464	901*
Quicksilver (See Mercury)		
Quillstock Spinning	57	4
Quilting	112	117*
Frames with cloth winding means	242	67.1 R*
Quilts	5	482*
Design	D 6	603*
Bedding per se	D 6	595
Quinaldine	546	181
Quinazolines	544	283*
Quinhydrones	552	293
Quinic Acid	562	508
Quinicine, in Drug	514	314
Quinidine, in Drug	514	305
Quinine	546	134
In drug	514	305
Quinizarin	552	262
Quinoline	546	152*
Azo compounds	534	770*
Quinolinium Compounds	546	182
Quinolizines	546	138
Quinonediamine	552	301*
Quinonimines	552	302
Quinophthalone	546	173
Quinoxalines	544	353*
In drug	514	249
Quinuclidines	546	133

	Class	Subclass
Quiver	D 3	36*
Quoins	254	40*
Quonset Hut	52	86
R Acid	562	80
Race		
Bearing		
Assembly apparatus	29	724*
Ball	384	513*
Divided	384	199*
Fastening means	384	541
Manufacturing process	29	898*
Roller	384	569*
Take up	384	500
Thrust	384	622
Starting barriers	119	15.2
Track	272	4*
Water wheels	405	118*
Raceway		
Bearing raceway grinding	51	291
Grinding bearings in	51	130
Sawing machine shuttle	112	196
Racing		
Amusement railway	104	60
Arena	272	4*
Simulated games	273	86R
Rack (See Ratchet; Support)	211	
Adjustable	211	175
Animal husbandry	119	20
Feeding	119	60
Article (See also supports for specific articles)	211	
Ball billiard table attached	273	10*
Battery	429	96*
Card	40	124
Check label and tag	40	657
Clothes bed attached	5	504
Gun	211	64
Hat	211	30*
Hose or nozzle	248	89*
Ironing table combined		
Life preserver	114	190
Music piano attached	84	180
Pen or pencil	211	69.1*
Portable	294	143
Radiator	165	67*
Cabinet combined	312	
Canning		
Food cooking	99	359*
Receptacle	211	71*
Receptacle stationary	248	146*
Collapsible	211	195*
Disinfecting, preserving	422	297
Knockdown framework	211	189*
Mechanism	74	422
Oven	126	337R*
Pinion and (See device in which used)	74	422
Mechanical movements	74	20*
Intermittent grip type	74	111*
Pushing and pulling mechanism	254	95*
Rail	238	123
Elevator	187	19
Locomotives	105	29.1*
Switches	104	132
Wheel	295	4
Releasable keeper for sheet retainer	402	60*
Showcase combined	312	128*
Sorting-type	211	10
Spool	211	59.1
Stackable	211	194
Terraced trays	206	211
Vehicle body	296	3*
Racket or Racquet	273	67R*
Croquet	273	83
Design	D21	212
Restringing tension meter	73	862.43
Tennis	273	73R
Racking Hoops	147	44
Radar	342	147*
Design	D10	104
Digital computer combined system	342	195
Light ray radar	356	3*
Simulators	434	2*
Sound or supersonic	367	87*
Radiant Energy (See Heat; Illuminated; Music; Optics; Photography; Radio; Sound; Space Induction; Solar; Television)	250	
Barrier	250	505.1
Detection (See radio)		
Computer controlled, monitored	364	413.26
Infrared	250	338.1
Invisible light	250	336.1
Neutrons	250	390.1*
Nuclear reactions control	376	207
Photoelectric	25[illegible]	200*
X ray	25[illegible]	336.1
Devices, railway switches	2[illegible]	DIG. 1
Electric heater	3[illegible]	407*
Imagery chemistry (See X-art list)	4[illegible]	
Binder ctg	4[illegible]	905*
Binder-free emulsion	[illegible]	932*
Initiator ctg	[illegible]0	913*
Radiation-activated cross linking agent ctg	[illegible]0	927*
Radiation-chromic compound	[illegible]30	962*
Spectral sensitizer ctg	[illegible]30	926*
Material treatment		
Article or object apparatus	250	492.1
Chemical and other apparatus	422	186*
Chemical apparatus	204	193
Coating	427	12*
Coating apparatus	118	620*
Coating with fibers or	427	58*
Particulate material	427	12*
Drying processes etc radiant heating	34	39*
Drying processes etc selected range	34	4
Dyeing apparatus	8	103
Dyeing processes	8	444
Electric discharge apparatus	422	186.21*
Electrical energy drying an[illegible]as or vapor contact with s[illegible]s	34	1
Electrons	250	306*
Fluent material apparatus	250	428*
Food and beverage appe[illegible]us	99	451
Refrigeration combined	62	264
Solar drying process an[illegible]as or vapor contact with s[illegible]s	34	93
Sterilizing and pasteuri[illegible] processes	426	521*
Sterilizing and pasteur[illegible]g processes	426	237*
Tobacco treatment	131	299
Vitamin activation pr[illegible]sses	426	72
Medical and surgical a[illegible]'cations	128	362*
Application to body	604	20
Bandaging	128	82.1
Computer controlle[illegible]monitored	364	413.26
Injection means	604	21
Instruments	606	2*
Kinesitherapy eg[illegible]assage	128	24.1*
Magnetic	600	9*
Medicators	604	20*
Nuclear reaction	376	100
Nuclear reactio[illegible]	376	156
Orthopedics	128	68.1
Processes	376	156
Nuclear reaction[illegible]duced energy	376	
Radiation measur[illegible]	D10	47
Computer con[illegible]ed, monitored	364	413.26
Radiation resiste[illegible]ydrocarbon composition	585	944*
Responsive		
Battery	136	243
Cathode ray[illegible]e	313	365*
Cathode ray[illegible]e circuit	315	10*
Circuits misc[illegible]neous	250	200*
Closure ope[illegible]r	49	25
Explosive i[illegible]rs fuses	102	213
Explosive i[illegible]rs marine mines	102	416*
Explosive i[illegible]ers mines	102	427
Photocell e[illegible]ronic tube type	313	523*
Resistor	338	15*
To invisibl[illegible]ght X ray etc	250	336.1
Secondary e[illegible]ion		
Cathode r[illegible]tube circuit	315	11
Cathode r[illegible]tube plural cathodes	313	375
Cathode r[illegible]tube with photo sensiti[illegible]electrode	313	387
Electroni[illegible]se	313	103R*
Secondary [illegible]ation minimizing		
X ray s[illegible]n	378	154
X ray t[illegible]	378	140
Shielding		
Against [illegible]sible rays	250	515.1
Nuclear [illegible]actor combined	376	287
Nuclear [illegible]actor combined	376	347
Simulator [illegible]radiation	434	218
Thermom[illegible]s	374	121
Toaster	D 7	324*
Radiation Imagery--chemical	430	
Achromatic image from chromatic	430	356
By sound or nondigital compressive forces	430	3
Color imaging process	430	351*
Control feature responsive to test or measurement	430	30
Diazo reproduction	430	141*
Effecting frontal radiation during exposure, eg screening etc	430	396
Electric or magnetic imagery	430	31*
Exposure step or specified pre-exposure step perfecting exposure	430	494
Imaged product chemically defined	430	9*
Imaging affecting physical property of radiation sensitive material, or producing non-planar or printing surface	430	269
Liquid crystal	430	20
Microcapsule	430	138
Micrography	430	8
Non-radiation sensitive image	430	449*
Plural exposure steps	430	394
Post imaging process	430	404
Producing cathode ray tube element	430	23
Product having sound record or process of making	430	140
Radiation sensitive product and composition	430	495*
Regenerating image processing composition	430	398
Registration or layout process	430	22
Silver halide colloid tanning	430	264*
Stripping process or element	430	256*
Thermographic process	430	348*
Transfer procedures between image layer & image receiving layer	430	199
Using reflected radiation	430	395
Visible imaging	430	198
Firing or sintering step	430	198
Radiation only, other than heating by surface contact or convection	430	346
Radiator (See Heat)		
Automobile radiator and light	362	79
Automobile radiator leak testing	73	49.7
Automobile type	165	148*
Design	D12	163*
Brushes	15	159R*
Cap ornaments	428	31
Thermometer type	374	146
Caps	220	200*
Covers		
Automobile	165	98
Incased	165	129
Shields	237	79
Design	D23	330*
Electrical	392	375*
Radiating panel	392	435
Radiating plate	392	435
Fluid heated radiators	237	70*
Gas burning	126	91R
Incandescent fire grate	126	92R
Heat exchangers	165	148*
Heating systems having	237	
Making	29	890.3*
Assembling	29	726*
Headers	29	890.52
Tube joint	29	890.44
Work stands	269	
Relief valves and vents	137	455*
Temperature controlled	236	61*
Sectional	165	130
Supported foot rests	248	218.4*
Supports		
Bases	248	348
Brackets	248	232*
Window mounting brackets	248	209
Work holders	269	
Temperature controlled	236	22
Cooling radiator	236	34*
Heating radiator	236	36*
Vehicle, design	D12	166*
Vehicle mountings	180	68.4*
Aircraft	244	57
Viscosity controlling	165	35*
Wall panel heating and cooling	165	49
Radio		
Aircraft control	244	75R
Aircraft control automatic	244	175*

	Class	Subclass
Amplifiers	330	
Automatic volume control	455	234+
Amplifier stage only with bias control	330	129+
Amplifier stage only with impedance control automatic	330	144+
Amplifier stage only with thermal impedance control automatic	330	143
Band changing	334	47+
Block signal systems hertzian wave	246	30
Block signal systems no line wire	246	38
Block signal systems no line wire	246	44+
Cabinets	312	7.1
Design	D14	188+
With antenna	343	702
Chassis	455	347+
Housed	174	50+
Prewired sub assembly	361	422
Clock combined	D14	170+
Condenser	361	271+
Adjustable	361	277+
Electrolytic	361	500+
Console with phonograph	D14	169
Control of devices		
Aircraft	244	175+
Camera shutter	354	131
Frequency responsive	340	825.72
Motors	318	16
Pulse responsive	340	825.69
Transmitter for	341	176
Demodulators	329	
Direction		
Finder receiver	342	417+
Directive	342	350+
Reflected wave systems, ie radar	342	
Electronic tube structure	313	238+
Headphones	455	350+
Indicators	116	241+
Magnetic induction transmission to vehicle	191	10
Miscellaneous	455	
Oscillators	331	
Phonograph combined	369	6+
Pocket	455	351
Transmitter	455	100
Power transmission		
Electric motor	318	16
Miscellaneous	307	149
Vehicle	191	10
Program indicator	40	901*
Pulse or digital communications	375	
Receiver	375	75+
Transmitter	375	59+
Radio and phonograph	369	6+
Receivers	455	130+
Design	D14	188+
Pulse or digital	375	
Regenerative	455	336
Stereo	381	2+
Superheterodyne	455	313+
Superregenerative	455	336
Testing of	455	226
Tuned radio frequency	455	150+
Remote control by radio waves	340	825.72+
Pulse responsive	340	825.69
Remote control of receiver	455	352+
Tuning	455	151+
Remote control of transmitter	455	92
Remote signal course control	244	189
Responsive explosive igniters		
Ammunition & explosive devices	102	214
Mines	102	427
Mines marine type	102	418
Second detector	329	
Shielded	330	68
Static eliminator	455	296+
Supersonic remote control for	455	352
Teledynamic		
Motor control	318	16
Telemetric	340	870.28+
Telegraph space induction	178	43
Onto signal line	178	49
Telemetry	128	903*
Telephone superaudible composite system	379	64+
Torpedo control	114	21.1
Train dispatching inductive telegraphy or telephony	246	8
Transmitter	455	91+
Tubes	313	
Envelope	313	248
Manufacture	445	
Manufacture and repair	445	
Part of tube	313	313
Shield	174	35TS
Testing	324	405+
Tuners	334	
Band spreading	334	
Capacitors variable	361	277+
Dial operator	74	10R+
Electric motor operated	334	20+
Electric wave filters	333	167+
Ganged	334	
Limit stop mechanism	192	138+
Operator only for tuner	74	10.45
Push button	74	10.1+
Using distributed impedance only	333	219+
Wave hf transmission	333	
Wave meter	250	250
With gain control by		
Automatic impedance control	330	144+
Automatic thermal impedance control	330	143
Bias control	330	129+
Radioactive & Radioactivity	250	493.1+
Actinide series metals		
Alloys	420	1+
Compositions	252	636+
Electrolysis	204	1.5
Heat treatment	148	132
Inorganic compounds	423	249+
Metallurgy	75	393+
Organic compounds	534	11+
Alloys	420	1+
Battery	310	301+
Carbocyclic or acyclic compounds	534	10+
Nitro	568	924+
Compositions	252	625+
Molding	264	21
Contamination detector	250	336.1
Demonstrator	250	336.1
Cloud chamber	250	
Electrically	250	336.1
Fluorescent	250	458.1
Drug, bio-affecting & body treating compositions	424	1.1+
Electrical & wave energy, chemistry	204	1.5
Energy measurement	250	336.1
Material	52	
Apparatus	422	903*
Compositions	252	625
Containing electrically conductive or emissive compounds	252	517
For influencing fluent	250	493.1
Material incinerator	110	237
Production	376	156
Treating	264	
Geiger type system	250	374+
Measurement of	436	178+
Medicine	424	1.1
Metallurgy alloys cerium and	420	1+
Nuclear reactions & systems	376	
Neutron type system	250	390.1+
Photography	250	475.2
Producing in material	376	156
Scintillation	250	361R+
Plastic shaping of radioactive material	264	.5
Powder metallurgy	419	
Radioactive isotope of another element	423	249+
Technetium radioactive metal	432	2+
Organic compounds	534	14
Test method containing	424	1.1
Antigen-antibody	436	500+
Therapeutic application	128	11+
Treating mixture to obtain	423	2+
Waste disposal storing	252	626+
X-ray or neutralized shield	252	478
Radiochemical (See Radiant Energy)		
Apparatus chemical change	204	193
Compositions radioactive	252	625+
Food treatment		
Preservation	426	237+
Vitamin activation	426	72+
Medicine radioactive	424	1.1
Nuclear reactions	376	
Sound recording and reproduction	369	100+
Tobacco treatment	131	299
Radiography	250	
Radioimmunoassay	436	545*
Radioisotope Powered Generator	310	301+
Radioisotopic Iodine for Testing	436	804*
Radiometers		
Light meters	356	213+
Pyrometers	356	43+
Radio wave meter	250	250
Rotating vane type	356	216
Thermometers	374	121
Ultraviolet	250	372+
Radiosonde	340	870.1+
System	340	870.1+
Radiotelegraphy	375	
Earth transmission systems	375	6
Radiotelephony	455	
Earth transmission systems	455	40
Radium (See Radioactive)		
Radius & Spiral Measurement	33	ISP
Radius Rod		
Brake	188	191
Spring braces	267	66+
Rafter	52	92+
Clips and	33	DIG. 16
Rafts and Rafting		
Life rafts	441	35+
Rafting and booming	441	48+
Rail (See Railway)		
Airplane	104	23.1+
Amusement	104	53+
Anchors	238	315+
Balloon	104	22
Bed	5	
Camp	5	117
Elements and details	5	286+
Extension	5	184
Folding	5	177
Rotating	5	302
Benders	72	210
Portable	72	210
Billiard table	273	8+
Bonds for electric railways	238	14.5+
By electric weld	219	53+
Manufacture and installation	228	4.1+
Manufacture and installation	228	101+
Cable rails	104	112+
Car propulsion systems	104	287+
Car replacer	104	262+
Car stops	104	249
Car yards	104	26.1+
Chalk and eraser	434	417
Circuit		
Power	191	
Signal	246	
Cleaner	15	54+
Clearer	104	279+
Snow	37	198+
Clip	238	378
Derail guards	104	242+
Drills, portable	408	
Elevators	104	127+
Fasteners	238	310+
Fence	256	59+
Fissure detector	73	146
By abrasion	73	8
Magnetic	324	217+
Grinders	51	178
Guard		
Railway surface track	238	17+
Track	256	14+
Hose bridges	104	275+
Joints	238	151+
Land vehicle		
Dashboard	296	71
Top	296	123
Manufacture	72	
Curving	72	210
Punching	83	
Monorail	104	118+
Moving train	104	18+
Razor		
Form	30	83
Guard	30	80
Seat-guard control	104	241
Seats	238	264+
Shapes	238	122+
Shifters	254	43+
Ship belaying pin	114	218
Sledways	104	134+
Slotted conduit	104	140+
Suspended	104	89+
Swimming pool grab rail	D25	41
Switches	104	130+
Terminals & stations	104	27+

	Class	Subclass
Textile making apparatus	57	136+
Toy railroad	104	DIG. 1
Track clearers	104	279+
Track layers	104	2+
Trackmans-car drive	105	86+
Traction	104	165+
Trains	105	1.4+
Trolley rails	104	106+
Trolley transfer	104	96+
Truck changers	104	32.1+
Trucks	105	157.1+
Tunnel ventilation	98	49
Turn tables	104	35+
Railways (See Rail)	104	
Antileak joints	105	424
Brakes	188	33+
Cabs	105	456
Car design	D12	39+
Car framing and structure	105	396+
Car locks for elevators	187	97
Chair making	29	16
Draft appliances	213	
Electric vehicle, streetcar type	D12	36+
Appliance	D13	128
Floors	105	422
Geometrical instruments	33	1Q
Graders	37	104+
Linings	105	423
Locomotives	105	26.5+
Cab ventillation	98	3
Car ventilation	98	4+
Dust guards	98	28
Mail delivery	258	
Marine	405	2
Monorail	105	141+
Motor placement	105	133+
Pit scale	177	134
Platforms	105	425+
Rail or tie shifters	254	43
Rolling stock	105	
Design	D12	36+
Sounding toy	446	410
Safety bridges	105	458+
Ship	405	2
Side guards	105	439+
Signals & switches	246	
Block system	246	20+
Snow excavators	37	198+
Sound deadeners	105	452+
Special car bodies	105	238.1+
Steps	105	443+
Steps with gate	105	437+
Surface track	238	
Electrical connections	238	14.1+
Fence or guard rails	238	17+
Juxtapose and bonding rails	228	101+
Leveling and spacing gauge	33	338
Rail bond making	228	4.1+
Spike pullers	254	18
Suspended	105	148+
Switches and shifters	246	
Tie clamp	D12	51
Toy railroad	104	DIG. 1
Toy simulation	446	444+
Design	D21	129
Electric	104	288+
Wheels and axles	295	
Axle making	72	
Wheel making	29	168
Wheel or axle drive	105	96+
Rain		
Gauges	73	171
Producers	239	14.1
Raincoats	2	87
Raisers (See Hoist)		
Corpse in coffin	27	12
Dough		
Baking powder	426	562+
Heater	126	281+
Jacks	254	
Track	104	7.1+
Wick	431	304+.
Wick	431	315+
Raising Ships	114	44+
Rakes		
Agricultural implements	56	
Blanks and processes for making	76	111
Bundling combined	56	341+
Cutter and ground rake	56	193
Cutter with conveying rake	56	158+
Cutter with detachable rake	56	4
Design	D 8	13
Dies for making	72	470+
Grain separator	460	
Hand	56	400.1+
Horse drawn	56	375+
Loading combined	56	344+
Potato digger conveyor	171	13
Side delivery	56	376
Flume screens	210	154+
Furnace grate	110	285
Hand fork combined	294	52
Making	83	908*
Pan type evaporator	159	33
Scoop type	37	120+
Stove grate	126	173
Vegetable or meat comminutor feeder	241	
Vehicle fender	293	53
Rammers (See Tamper)		
Ammunition loading	86	29+
Earth compacting	404	133
Road construction type	404	133
Foundry mold press type compactor	164	207+
Plural rammers	164	172+
Machine for concrete	425	425
Machine for concrete	425	456
Ordnance loading	89	47
Road and pavement	404	133
Ramp, Loading (See Gangway)		
Ramrod		
Firearm	42	90
Rams		
Hydraulic	417	226+
Ice breaker	114	41
Warship	114	2+
Rand for Shoe	36	78
Making machine	12	67R*
Random Control		
Cutting machine	83	58+
Selective	234	22+
Range		
Shooting	273	348.1+
Range Finders		
By straight line light ray	33	284+
Camera focusing, automatic	354	400+
Radar	342	147+
Distance determining	342	118
Sound wave type	181	
Submarine type	367	99+
Using wave radiation	356	4+
Ranges	126	1R+
Electric		
Heating and cooking	219	392
Ranque Tube	62	5
Rare Earth Metal		
Pyrometallurgy	75	610
Rare Earths	156	DIG. 63
Organic compounds	534	15+
Rare Gases (See Gas, Rare)		
Raschig Rings	261	94
Surface contact	261	95
Rasp	29	78+
Making	76	13
Wood	29	78+
Rat		
Guards for mooring lines	114	221R
Hair grooming device	132	55
Trap	43	5B+
Ratchet		
Drills	408	120+
Combined	408	120+
Pawl and	74	575+
Bit stock	81	28+
Fishing reel brake	242	296+
Fishing reel drive	242	254
Intermittent grip movements	74	111+
Wrenches	81	60+
Rate of Climb		
Gyro controlled	73	504
Pressure type	73	179
Ratine		
Twisted strands	57	210+
Yarn making	57	3+
Apparatus	57	3+
Rattan Seat	D 6	369
Rattles		
Toy	446	419
Design	D21	65
Vehicle shakers	73	669+
Ravnitidine	546	48
Ravelers	28	171
Ray (See Radiant Energy)		
Applications and devices	250	
Cathode ray		
Circuit for tube	315	1+
Structure of tube	313	364+
Television receiver	358	242+
Television scanning	358	199+
Television system	358	83+
Television transmitter	358	217+
Light ray geometrical instrument	33	227+
Light ray projector type game	273	310+
Photocell special ray sensitive	313	523+
Television optical ray	358	209+
Rayon (See Artificial, Silk)		
Razor	30	32+
Blade	30	346.5+
Abrading machines for	51	34BR
Rotary tool, one way traverse	51	80B
Blade design	D28	45+
Manufacturing	76	DIG. 8
Package	206	352+
Sharpeners	76	DIG. 9
Cleaner	15	218
Combined with razor	30	41
Design	D28	45+
Dry shaver	30	43
Electric	30	45
Holder	D 6	526
Hones for	51	211H
Illuminated	362	115
Package or container for	206	208
Design	D 9	342
Kit with razor	206	228
Special package for powered razor	206	351
Safety	30	51+
Sharpeners and straps	30	35+
Design	D 8	92
Sharpening	51	
Processes	51	285
Razor combined	30	35+
Strops	76	81+
Reaches		
Land vehicle	280	140+
Crossed	280	102
Pivoted and sliding	280	101
Reaction Motor (See Jet, Motor)	60	200.1+
Discharge nozzle	239	265.11+
Reactivation (See Revivification)		
Reactive Power Control	323	205
Reactors	336	
Lamp or electronic tube system having	315	289+
Nuclear	376	
Reader		
Cabinet structures	312	
Coded record & reader, invisible radient energy type	250	556
Document verification or graph reader	250	271
Reader-printer Machines	D16	223
Data processing equipment	D14	111
Reading		
Aids		
Blind or sightless user	434	113+
Bookholder	248	441.1+
Bookmark	116	234+
Copyholder (See copyholder)		
Line indicator	116	240
Magnifier	350	245+
Forms	283	
Teaching	434	178+
Rapid reading	434	179+
Reamers	408	199+
Cleaning implement	15	104.2
Cutlery blade type	30	352
Design	D15	138
Earth boring	175	406+
Expansible	175	263+
Grinding	51	288
Rotary fruit juicer	99	495+
Screw threading, reaming & tapping	408	118
Smoking pipe bowl	131	246
Wood	408	227+
Reapers	56	
Rearrangement (See Isomerization)		
Reatomizers	261	DIG. 55
Rebar	52	737+
Rebar chair	52	677+
Recapping	156	95+
Receipts		
Transportation cash fare	283	30+

	Class	Subclass
Severable part	283	100*
Receivers (See Bin; Receptacles)		
Bicycle stand type	224	328*
Closure removing tool with	81	3.8
Conveyor and chute with hopper	198	540*
Discharge to chute	198	550.1*
Dispenser combined	141	
Dispenser control by weight in	222	56
Dry closet		
Movable magazine	4	467*
Urinal separate	4	463
Ejected bobbin	139	255
Facsimile		
Natural color	358	75*
Optical	358	296*
Fare box	232	12
Firearm	42	16*
For drippings from inverted container	141	364
Hand rake material	56	400.11*
Heterodyne, superheterodyne	455	313*
Light wave	455	600*
Pulse or digital	375	
Pulse shift keying	375	52
Railway mail delivery	258	20*
Support combined	258	11*
Recorder record	346	22
Refrigerant	62	509
Sheet pack	271	207*
Smoking device with ash receiver	131	174*
Stereo	381	2*
Surgical receptors	604	358*
Systems for wireless	455	130*
Telecommunications	455	130*
Telegraph	178	118*
Telephone		
Handset	379	433
Switch in terminal	379	422*
Television		
With sound or message	358	142*
Tobacco users appliance with ash receiver	131	231*
Type casting matrix receiver	199	29*
Vehicle fender	293	39
Wind motor	415	9*
Receptacle (See Bag; Bottle; Bowl; Box; Case; Container; Cup; Dish; Holder; Pail; Tray; Vessel)		
Acids	206	524.1*
Agitating type	366	341
Baggage	190	
Ball mill	241	179*
Bath strainer type	4	290*
Bathtub (See bathtub)	4	538*
Battery	429	163*
Cell assembly support feature	429	186
Container only	429	176
Cap container	429	164*
Cover only	429	175
Handle or lifting device	429	187
Plural covers	429	177
Reactive metallic can	429	166
Seal feature	429	172*
Seal feature	429	174
Terminal feature	429	178*
Tubular electrode	429	164*
Beaker (See beaker)	422	104
Bed, for use with	5	503*
Bed with drawers etc.	5	308
Sofa bed	5	58
Bottles or jars	215	
Cabinet structures	312	
Closet bowl attachment	4	341*
Coin handling, eg change makers	453	
Collection	232	
Concentrating evaporators	159	
Cutlery handle type	30	125
Razor	30	86
Deposit and collection	232	
Cabinet combined	312	211*
Discharging hand type	294	26.5
Dispenser	222	
Dry closet	4	479*
Inclosed	4	476*
Drying chamber type	34	179*
Rotary	34	108*
Earth boring tool combined	175	308
Electric battery	429	163*
Electric plug box or housing	174	50*
Electric wiring	439	501*
Emptying devices	414	403*
Evaporative cooled, porous cover	62	316
Evaporative cooled, porous wall	62	315
Porous wall	312	31*
Filling aide	141	391
Fire escape storing	182	93*
Fire extinguisher	169	
Portable	169	30*
Flexible ladder storing	182	70*
Food and beverage	99	467
Beverage infuser	99	323
Cooking filled receptacles	99	359*
Molding type eg pie & cake pans	99	426
Storage	99	516
Forehearth	266	166
Heating crucibles	432	262*
For metalliferous material	266	275*
Metal casting device combined	164	335*
With pouring modification	222	
Hoisting bucket type	294	68.1*
Hot water bottle or ice bag type	128	403
Ice cooled, portable	62	457.1*
Package type	62	371*
Inkwell (See inkwell)		
Instrument sterilizer	422	
Laminated making	156	
Lid applying	53	287*
With compacting of contents	100	54*
Lining as by laminating	156	
Lock attachment	70	63*
Luggage or baggage	190	
Medicaments	604	403*
Metal working reel	242	83
Metallic	220	
Milking machine can	119	14.46
Nut cracker combined	99	568*
Opening	206	601*
Orifice grommet or bushing	16	3
Paper	229	
Envelope	229	68R*
Opening	206	601*
Paperbox box	229	100*
Paper type filling and closing	53	467*
Piano case music storing	84	181
Plant or flower	47	66*
Bio degradable	47	74*
Irrigator	47	79*
Terrarium	47	69*
Window box	47	68*
Plumbing fittings	4	191*
Portable with burglar alarm	116	99
Racks	211	126*
Wall or window mounted	211	88
Relocatable with charging & discharging	414	332
Safe and vault type	109	
Sheet metal making	413	
Sifter type	209	233*
Special or packages	206	
Spittoons	4	258*
Spool holder	242	137*
Static mold	249	117
Stratifiers	209	422*
Supports	248	128*
Bag holders	248	95
Bracket type	248	311.2*
Desk and inkwell combined	108	26.2
Inkstand dispensing	222	577
Paste tube type	248	108
Stand eg inkstand		
Movable receptacle	248	128
Stationary inkwell	248	146*
Suspended type	248	318
Tearing	206	601*
Testing	73	52
Textile washing machine	68	
Deformable for squeezer type	68	96
Tumbler type	68	139*
Twine holder	242	146
Wash tub	68	232*
With scrubbing surface	68	233
Water heating type	126	373*
Well	166	162*
Hoist bucket type	294	68.1*
Wheeled	280	
Barrows or trucks	280	47.17*
Wooden	217	
Reclaiming (See Recovery)		
Celluloid	536	38*
Cellulose ester film scrap	536	76*
Cotton waste	8	141
Apparatus	68	1
Fats and oils	260	412.5
Lumber denailing	254	18
Paper	162	4*
Rubber	521	41*
Scrap metal salvaging	29	403.1*
Synthetic resin or natural rubber	521	40*
Tin scrap		
Hydrometallurgy	75	716
Metallurgy	75	401*
Tobacco	131	96
Recoil		
Checks (See shock)	188	266*
Ordnance	89	42.1*
Operated		
Firearms and guns	89	125*
Package retainer, recoil-type	206	825*
Pads for shoulder arms	42	74
Design	D22	111
Recombination (See Genetic Engineering)	435	172.3
X-art collection	935	
Record		
Changer	369	178*
Controlled calculator	235	419*
Disk for phonograph	369	272*
Disk holder	206	309*
Hand carrier	294	158
Forming sound grooves in	264	106*
Shaving	82	1.11
X-art collection	425	810*
Recording and Recorders	346	
Aerial projectile target	273	348.1*
Borehole indicator	33	304*
Burning	346	76R
Calculator	235	58R*
Charts	346	134*
Coating process	427	146
Crt	346	158
Electrical memories	365	118
Direction indicator	33	331
Dispenser combined	222	30
Dynamometer	73	862.27
Electric spark	346	162
Electrolytic	346	165
Equipment design	D14	
Facsimile		
Optical	358	296*
Receiver	358	296*
Float gauge	73	312
Fluid pressure gauge	73	713*
Holograms	350	3.6*
Electrical circuits	365	125
Liquid purification or separation	210	85*
Lock position	70	433*
Magnetic bubbles	365	1*
Mail letter box	232	18
Music	84	461*
Pens	346	140R
Printing	101	
Pyrographic	346	76R
Radioactive	346	152
Railway		
Block signal	246	107
Cab signal or train control	246	185
Train position	246	123
Register combined	235	2*
Reproducer combined		
Electrical wave for measuring	324	111*
For electrical transient	324	102
Scale	177	2*
Sound	369	
Acoustic image	367	7
Cabinet	312	9*
Composition	106	37
Electric music instrument	84	600*
Electroforming process	204	5
Indexing devices	369	30
Magnetic tape or wire	360	88*
Manufacture	29	169.5
Molding device	425	406*
Molding process	264	106*
Phonograph electric	369	128*
Rock	211	40
Seismic mechanical	346	7
Talking picture apparatus	352	1*
Tape winding means	242	179*
Strip sprocket hole testing	73	157
Tape winding means	242	179*
Unidirectional	242	55.17*
Telegraphy		
Chemical & electrolytic	178	62

	Class	Subclass
Page printing	178	28*
Photographic	178	15
Printing selector	178	34
Receiver	178	89*
Reed printer	178	48
Siphon	178	91
Transmitter	178	17R*
Type wheel printer	178	35
Telephone		
Calling number	379	142
Conversation time	379	114*
Telegraphophone	369	132*
Television	358	335*
Camera with recorder	358	906*
Color	358	310*
Magnetic	360	33.1*
Pause control	358	908*
Track skipper	358	907*
Television system combined	358	296*
Thermoplastic, storage retrieval of information	365	12o
Thermoplastic, visual record	346	151
Television	358	344
Color	358	310
Facsimile	358	300
Time		
Plural recordings	346	45*
Printing or punching	346	80*
Transparency	365	127
Verifying	73	156
Voting machine	235	50R
Wire	346	150
Sound type	360	89
X ray photography	378	
Recovery (See Material Recovered)		
Coating excess	427	345
Dyes	8	440
Fats and oils	260	412*
Inorganic actinide compounds	423	249*
Nuclear materials	376	189
Nuclear materials	376	201
Nuclear materials	376	308
Scrap metal salvaging	29	403.1*
Separation of solids	209	
Solvent apparatus	68	18R
Rectangular Proportioner	33	DIG. 9
Rectifiers and Rectifying	D13	110*
Beam power amplifier	313	298
With two cathodes	313	5
Distillation	203	
Apparatus	196	
Apparatus	202	
Liquids	203	
Mineral oil	208	350*
Doubler high vacuum	313	306*
With two cathodes	313	1
Electrical	363	13*
Barrier layer coating	437	
Barrier layer compositions	252	62.3 R
Electrolytes	252	62.2
Electrolytic devices	361	436
Full wave high vacuum	313	306
Lamp or electronic tube supply	315	200R*
Manufacture	29	25.1*
Process	437	
X ray circuit supply	378	101
Gas and liquid contact apparatus	261	
Gas liquefaction	62	42*
Process	62	32*
Process, plural separation	62	24*
Gas separation processes	55	36*
Half wave system	363	13*
Circuit interrupter for	200	
Dynamoelectric machine	310	10*
Electronic tube for	313	317*
Gas tube type	363	114*
Power packs	307	150
Unidirectional impedance for	357	
Vacuum tube type	363	114*
With filter	363	39*
With voltage regulator	363	84*
Mercury vapor system	363	114*
Rectifier control only	315	246*
Mineral oils	208	350*
Vacuum or gas tube	313	
Recuperator		
Distillation retort combined	202	111
Gas bench	202	148
Horizontal	202	140
Inclined	202	130
Vertical	202	122
Furnace		
Fuel burned in permeable mass	431	170
Gas heating furnaces	432	179
Red Lead	423	619
Redox Catalyst	526	915*
Reducer		
Commutation sparking	310	220*
Machines		
Cabinets	128	371*
Exercising	272	93*
Massage	128	24R*
Pipe joint	285	177
Screw	285	392
Pressure (See pressure, regulator)		
Socket wrench	81	185
Reduction (See Hydrogenation)		
Amines primary production by	564	415*
Apparatus for ores	266	168*
Catalysts treatment	502	100*
Chemical agents	252	188.1
Detergent	252	105
Hydrogen production by	423	648.1
Inorganic sulfide production by	423	
Iron and alloys electrothermic	75	10.1*
Of metal ores and metal compounds	75	
Separation distillation	203	32
Sulphur production by	423	567R
Thermit type	75	959
Reed		
Musical		
Accordian	84	376R
Harmonica	84	377*
Nonorgan reed instruments	84	375*
Organ reed pipes	84	350
Reed organs	84	351*
Toy	446	207*
Tuning reed for furnishing pitch	84	456
Wood winds	84	380R*
Station selective signalling	340	825.39
Telephone call type	379	360*
Telegraph	178	47*
Telephone call transmitter	379	360*
Textile loom reed	139	192
Movement thereof separate from raceway motion	139	191
Terry reed	139	26
Valve	137	855*
Vibration sensing	73	651
Reeding	28	201*
Reef, Artificial	405	21*
Reefing Sails	114	104*
Reel		
Agricultural implements		
Cutting and gathering	56	
Line wire driven planter	111	44
Potato digger	171	111*
Thresher straw carrier	460	85
Antenna	343	877
Antismut printing device	101	418
Baking oven combined	432	141
Body supported	224	162
Cable drum type, driven	254	266*
Carriers	242	85*
Changeable exhibitor	40	514*
Calendar type	40	116*
Electric cord	191	12.2 R*
Suspended support	248	328*
Fishing rod combined	43	20*
Design	D22	137*
Reel seat	43	22
Fishing type	242	223*
Attachments	242	322
Flexible ladder	182	73*
Holder	D 3	30.1*
Hose type with spray device	239	195*
Portable	239	722*
Measuring tape	33	761*
Midline tightener	24	71.2
Motion picture film winding	242	179*
With projector	352	124
Packages	206	389
Plumb bob	33	393*
Resistors	338	79
With motion picture projector	352	124
Rewind motion picture film	242	210
Sheet web or strand drying apparatus	34	153
Sound recording or reproducing tape drive	242	179*
Sounding	33	715*
Strand type fire escapes	182	236*
Strap combined	76	81.4
Tape measure	D10	71
Winding and reeling type	242	77*
Automatically contracting	242	63
Belt type	242	67
Revoluble carrier	242	64
Trundle type	242	94
Winding drum or sand reel type	242	117
Reeling	242	
Information-bearing web machine convertible	242	179*
Textile warp preparing	28	190*
Winding &	60	905*
Reeves Drive	474	8*
Refilling (See Fillers; Filling)		
By dispensing means	141	21
Fountain pen filling mechanisms	401	143*
Prevention of		
Bottles	215	14*
Dispensers	222	147*
Specially related dispenser and receiver	141	348*
Refining (See Purifiers)		
Alcoholic	99	277.1*
Apparatus		
Mineral oil	196	
Carbohydrate manufacture	127	34*
Starch manufacture	127	65*
Sugar manufacture	127	42*
Electrolysis	204	59R*
Fats oils and waxes	260	420*
Fatty oils	260	420*
Recovering	260	412*
Glass making in	65	
Metal casting apparatus combined	164	266
Metals	75	
Mineral oils	208	177*
Conversion combined	208	46*
Deasphalting	208	309
Gum or gum former removal	208	255*
Metal contaminant removal	208	251R*
Nitrogen removal	208	254R
Organic acid removal	208	263
Phenol removal	208	263
Sulfur removal	208	208R*
Sweetening	208	189*
Paper making	241	
Smelting combined	266	161*
Sugar	127	
Reflectors (See Mirrors & Reflectors)		
Antenna	343	912*
Collapsible	343	925
Design	D26	118*
Glass bead type	350	104*
Nuclear reactor including for neutrons	376	220
Nuclear reactor including	376	347
For neutrons	376	346
Radar	342	5
Reflection reducing films on optical surfaces	350	164*
Reflectometers	356	445*
Chemical analysis, apparatus	422	82.5
Solar heat collecting	126	438*
Warning reflector triangle for highway use	40	903*
Design	D10	114
Reflex Klystron	315	5.18*
Reflux, Vapor Barrier	156	DIG. 9
Refractometer	356	128*
Refractors		
Electric lamp having	313	110*
Fluorescent device having	250	485.1
Illuminating device type	362	326*
Illuminating reflector combined	362	327
Lenses	350	409*
Prisms	350	286*
Refractory Material		
Building block	52	596
Checker brick furnace structure	165	9.1*
Compositions	501	94*
Carbide containing	501	87*
Gas generator including	48	74
Metal heat treatment	148	133
Molding processes	264	56*
Pyrometallurgy	75	611*
Refrigerators (See Cooler and Cooling)		
Cabinet structure combined	312	236
Showcase type	312	116
Car	62	239*
Body structure	105	355*

	Class	Subclass
Compositions to produce Chemical	62	532+
Chemical reaction, solids dissolving	62	4
Fuel	62	7
Processes combined	62	114
Processes combined, sorption type	62	112
Refrigerants brines	252	71+
Refrigerants cryogenic and other	252	70
Refrigerants evaporative	252	67+
Compressor muffler	181	403+
Design of machine	D15	81+
Food, refrigeration of	426	524+
Food safes with open evaporative cooling	312	31+
Lights for	362	92+
Occupant type vehicle	62	244
Product produced by	62	1
Showcase type	62	259.3
Space suit	62	259.1
Weighing scale combined	177	143
Refuse (See Trash; Waste)		
Fuel	44	605+
Briquette	44	589+
Fuel burning	110	235+
Stoves and furnaces	126	222+
Hydrocarbon mixture from	585	240
Incineration	110	235+
Combined with stove	126	222+
Receptacles Cleaning	15	56+
Stock material from	428	903.3
Regenerated Cellulose	536	57+
Compositions	106	168
Dyeing with azo	8	662+
Filament forming	264	187+
Formation impurities removal	8	137.5
Swelling or plasticizing of	8	130.1
Viscose production of	536	60+
Regeneration (See Revivification)		
Heat of gas refrigeration cycle	62	6
Ion exchange liquid purifier	210	269+
External regenerant supply	210	190+
Motive fluid	60	526+
Process	210	670+
Tone musical instrument having	84	600+
Regeneration Media	435	240.54+
Regenerative		
Amplifier	330	112
Between adjacent stages	330	89
Cathode impedance feedback	330	93
In push pull type	330	82
In same path at different frequencies	330	101
Including negative feedback	330	104
Demodulator systems Amplitude modulation type	329	367
Furnace		
Alkyne synthesis using	585	535
Diolefin synthesis using	585	602
Olefin synthesis using	585	634
Radio receiver	455	336+
Regenerator		
Distillation Thermolytic retort system	202	105+
Evaporator	159	24.1
Furnace Heated air fed to burner	431	167
Heat exchange	165	4
Vapor inhalers	128	202.26
Reggio Patent Collection	60	913+
Registering		
Apparatus Telephone call counting	379	111+
Telephone switching control	379	280+
Registers	235	
Autographic		
Cash recorder	235	4+
Strips	281	5+
Strips and leaves	281	2
Strips and leaves manifolding	282	3R+
Strips manifolding	282	12R+
Closure	49	38+
Dispenser combined	222	23+
Display control	377	112
Dynamometer	73	862.27
Fare or ticket	235	33+
Float gauge	73	310
Heating and ventilating	98	101+
Design	D23	
In telephone system	379	111+
Liquid purification or separation	210	85+
Lock condition	70	436+
Mail letter box	232	18
Position		
Musical instrument	84	136+
Pneumatic conveyor	406	62+
Printing machine bed and platen	101	286
Printing machine rotary	101	248
Sheet material associating	270	51
Typesetting	276	15
Typesetting and distributing	276	3+
Web or strand feeding	226	10+
Recorder combined	346	14R+
Scale	177	15+
Senders telephone	379	288
Operator controlled	379	261
Shift	377	64
Telephone connection control	379	280+
Ventilation	98	101+
Registration Plate		
Automotive design	D20	13+
Regulating		
Apparatus		
For electric motors	318	
For electric railway cars	105	49+
Transformers	336	
Electricity		
Arc lamp	314	
Generator system	322	
Lamp generally	315	
Motor system	318	
Regulation		
Continuous current motors	318	
Of alternating current repulsion motors	318	725
Of electric power distribution	307	
Speed in induction motors	318	799+
Plural speed motors	318	772+
Rotor speed secondary circuit impedence control	318	823+
With starting control	318	779
Regulator		
Band saw tension	83	816+
Beverage infuser	99	305
Brake	188	266+
Carbon chemistry		
Depth		
Marine mines	102	412+
Torpedo	114	25
Draft		
Boiler	122	38
Furnace	110	147+
Furnace spark arrester	110	123
Electricity (See controller, circuit; controller, electric)		
Arc furnace	373	60+
Automatic system	307	
Battery charging circuit	320	29
Battery charging circuit	320	49+
Battery charging generator	320	27
Field winding	320	64+
Battery charging generator structure	320	72
Condenser	361	271+
Current	323	
Distribution	307	15
Electric generation	322	
Electrode current or voltage	314	135
Electrode feed electromagnetic	314	115+
Electrode feed rotary motor	314	69+
Electrode shunt	314	10+
Elevator operator actuated	187	43
Elevator speed	187	39
Gas and vapor lamp	313	567+
Heater electric	219	482+
Induction furnace	373	138+
Input responsive	323	299
Lamp	315	291+
Locomotive	105	61
Music instrument	84	600+
Phase control system	323	
Potential for dynamos	322	28
Pump	417	44+
Railway block signal	246	34R+
Railway car propulsion	104	288+
Resistance	338	
Resistance furnace	373	135+
Rheostat	338	68+
Speed	361	236+
Surgical	128	387
Transformer	336	
Voltage system	323	
Wave transmission	333	
X ray	378	108
Feed		
Boiler fuel and water	122	446+
Dibbling planter	111	95+
Electrode brake	314	82
Electrode consumable plural	314	37
Electrode consumption type	314	59+
Electrode magnetic operator	314	113+
Electrode separating mechanism	314	65+
Electrode shunt circuit	314	11+
Hill planter	111	17
Paper web forming	162	259
Pneumatic conveyer	406	127+
Automatic	406	29+
Solid material comminution	241	34+
Sprinkler pipe	239	562+
Fermentation process	435	289+
Fluid flow baffle	138	37+
Liquid purification or separation	210	143+
Locomotive traction	105	73+
Musical keyboard touch	84	439+
Nuclear reaction control	376	207
Pendulum electric clock	368	166
Power plant, condition responsive	60	660+
Power plant, system operation	60	645+
Pressure (See pressure)		
Calender roll	100	168+
Fermentation process	435	289+
Fluid by valve control	137	505+
Fluid flow meter combined	73	199
Illuminating gas distribution	48	191
Water heating system	237	65
Pump	417	279+
Fans	416	170R
Gas	417	279+
Gas jet flue	417	157
Gas rotary	415	
Jet	417	182+
Railway cable rail tension	104	117
Shear cut	30	200+
Speed (See speed responsive or controlled)		
Temperature and humidity	236	
Animal watering device	119	73
Arc lamp	313	11+
Automatic heat exchanging	165	13+
Automatic refrigeration	62	132+
Fermentation process	435	289+
Internal combustion engine	123	41.2+
Superheater	122	479.1
Tobacco treatment	131	303
Timepeice		
Balance	368	170+
Compensating means	368	202
Electrical frequency	368	200
Electrical rate	368	186
Pendulum	368	181+
Typewriter carriage	400	337+
Reinforcement		
Blades cutting	30	348
Bushings	16	2+
Checks labels tags	40	27
Clothing		
Pocket	2	248
Reinforcing collar cuff bosom	223	4
Stockings	2	241
Stockings knitted	66	182
Under wear	2	400
Comb back	132	155
Fabric	2	261
Making laminated	156	
Seams	112	402+
Ferrules	16	108+
Ladder	182	217+
Lining thimbles	16	2+
Masonry and settable material		
Arches	52	88
Beam or girder	52	723
Blocks modules	52	600+
Column pole, post	52	722+
Mold material	164	411
Openwork	52	633+
Pavement block	404	45
Pavement sheet	404	70
Pipes	138	175+
Post fence	256	51
Precast module	52	600+
Prestressed	52	223R+

	Class	Subclass
Processes	264	271.1
Radiating from column	52	260
Railway tie	238	85*
Ribbed	52	319*
Ribbed slab	52	602
Roadway	404	134*
Rods	52	720*
Safe or vault wall	109	83
Packing joint	277	
Pipe conduit	138	172*
Receptacle		
Flexible bag	383	119
Metallic	220	639*
Metallic edge	220	640*
Safe	109	83
Trunk	190	25
Rings	16	108*
Shoe insole	12	20
Spoons	30	328
Switch point railway	246	437
Textile, reinforcing or tire cords	57	902*
Thimbles	16	108
Tires		
Inner tube	152	511
Tire	152	393*
Tire and valve stem	152	430
Valve head	251	358
Vehicle frame	296	30
Wheels		
Hubs	301	106*
Spokes	301	83
Spokes plural series	301	77
Reins	54	36
Check	54	16*
Guards	54	73
Design	D30	141
Holders		
Design	D30	141
Vehicle attachment	280	182*
Whip socket combined	280	177
Holds	54	74
Supports and guards vehicle type	280	181
Reject Catcher or Deflector		
Glass making apparatus	65	165
Refrigeration producer		
Impurity removal	62	195
Reknitting	66	1.5
Relaxation Oscillator	331	
Driven type	328	173*
Relay		
Auto		
Headlight systems	315	77*
Horn systems	340	425.5*
Electric		
Amplifier	330	
Casing	200	302.1
Directional safety system	361	1*
Electric thermal responsive system	236	78R
Electromagnetic switch	335	2*
Electromagnetic switching systems	361	139*
Frequency division repeaters	370	75
High speed	335	2*
Light wave repeaters	455	601
Motor operated	335	68*
Pulse or digital repeaters	375	3
Railway signalling system	246	
Systems	361	139*
Systems safety	361	1*
Telegraph repeaters	178	70A*
Telephone central line-signal control	379	317*
Thermal current	337	14*
Thermal responsive system	236	68R
Time division repeaters	370	97
Pneumatic dispatch	406	181*
Pressure modulating relays or followers	137	82*
Structure electromagnetic		
Electromagnetic switch	335	
Electrothermal switch	337	14*
Temperature and humidity control by	236	
Time lag	200	33R*
Release & Releasers (See Uncoupling)		
Article	221	289*
Brakes and clutches		
Brakes	188	
Check controlled lock release	194	
Clutch and brake	192	12R
Clutch operators	192	82R*
Clutches	192	30R*
Drive release and brake	192	144*
Fluid pressure brake motor releasing	303	68*
Fluid pressure system synchronizing	303	36
Overload release	192	150
Phonograph stop mechanism	369	268
Speed responsive clutch operator	192	103R*
Transmission control and automatic brake	192	7*
Typewriter feed mechansim	400	334*
Coating		
Compositions	106	2
Methods	427	
Load-responsive release	403	DIG. 3
Overload (See clutch; crank; latch; lever; overload; trip)		
Automatic trip mechanisms	74	2
Elevator cable	187	72
Hand wheels	74	556
Harpoon type hay fork	294	126*
Hoist line sling	294	75*
Intermittent grip mechanical movements	74	111*
Key holding catch for locks	70	459
Lever carried pawl	74	535*
Lever detent and release	74	529
Lock emergency release	70	465
Locks	70	
Mechanical gun triggers	124	31*
Music leaf turners	84	486*
Pitman automatic release	74	584
Railway switches and signals	246	
Rotatable platform trap	43	72
Store service cable propulsion	186	16
Tiltable platform trap	43	70
Tilting hay fork	294	124
Time lock emergency release	70	274
Time switch latch trip	200	40*
Toy money box figure or mechanism	446	9
Traction railway cable grippers	104	207
Typewriter line spacing	400	565*
Valve	251	66*
Well torpedo lowering	102	313
Quick release	403	DIG. 4
Relief		
Electrochemical process	204	4*
Maps	434	152
Milling	409	69
Non-planar layer ornamented	428	187
Photographic process	430	322*
Picture	40	160
Relievers		
Electric cord strain	439	449*
Internal combustion engine pressure	123	182
Metalworking roll adjustment	72	237*
Photographs in relief making	430	269*
Radiator air valves	236	61*
Receptacle filling displaced air pressure	141	
Safe explosive pressure	109	27
Scale platform gear	177	151*
Ship tension	114	213*
Religion Teaching	434	245*
Religious		
Altar	D 6	396*
Apparel	2	
Article not elsewhere specified	D99	25*
Artifact cruciform type	428	3
Baptismal font	D99	25
Cabinet	312	
Creche	D11	122*
Educational device	434	245*
Incense burner	D11	131.1
Jewelry	63	
Medal	D11	95*
Monument	52	103*
Receptacle	206	19
Tabernacle	D99	25
Relishes	426	615*
Relishing	144	6
Remote Control (See Type of Control or Device Controlled)		
By flexible cable	74	500.5*
By light waves	455	600
By radio	340	825.72
Pulse responsive	340	825.69
By transmitter	341	176
Handlers	414	909*
Mining machine	299	30
Remote Cutoff		
RF pentode	313	300
Tetrode	313	297*
Remover (See Cleaner; Pull; Push; Scraper)		
Antiskid means on wheels	152	213R*
Bur removing		
Chains	59	59
Pipe	408	199*
Closure	81	3.7*
Can opener cutter combined	7	152*
Other tool combined	7	151*
Plier tool combined	7	126*
Dental crown	433	141*
Disassembly	29	700*
Garment	223	111
Heel shoe	12	50.5
Ingot strippers	164	405
Insulation from wire	81	9.4*
Obstruction conduit	4	255*
Residue from filter	210	407*
Rind	99	584*
Scale (See cleaner and cleaning)	29	81.1
Scum or sediment	210	523*
Distinct separators	210	299
Shell nut and vegetable	99	568*
Skin fruit and vegetable	99	584*
Sludge		
Acetylene generator	48	57
Sewage	210	523*
Stem	99	635*
Stump excavators	37	2R
Threshing	460	
Tire	157	11
Rubber tire	157	1.1
Welding flash planers	409	288*
Removing		
Caffein or tannin	426	427*
Cast article from mold	164	131*
Demountable rim	301	14
Disassembling processes	29	426.1*
Tools and appliances	29	700*
Drying	34	
Electric insulator moisture or dirt	174	211
Emulsifying agent from mineral oil	208	177*
Excess coating material	427	235
Fermenting processes		
Fermentate removal	435	262*
Fowl sinew	17	11.3
Garments	223	111*
Growth in water courses	56	8*
Rendering	260	412.6*
Liquid separation combined	210	767*
Apparatus	210	175*
Melting separators for chemicals	422	285*
Press	100	104*
Rennet or Rennin		
Cheese preparation with	426	582
Renovating		
Butter	426	663
Apparatus	99	452*
Coatings	427	140*
Dress		
Dry cleaning	8	142
Dyeing combined	8	441
Feathers	34	2
Repairing (See Darning; Patch)	29	402.1*
Access to fluid handling systems	137	583*
Adhesive bonding	156	94*
Building structure	52	514
Assembly or disassembly	52	127.1*
Coating processes	427	140*
Electrolytic	204	16
Disassembly steps included	29	402.3*
Electric		
Conductor	156	49
Discharge device	445	
Apparatus	445	61
Process	445	2
Lamp	445	
Apparatus	445	61
Process	445	2
Fluid handling systems or devices	137	315*
Furnace wall	264	30
Glass making apparatus	65	27
Liquid purification or separation apparatus	210	232*
Sectional chamber press type	210	230
Metal casting	164	92.1
Patching	29	402.9*
Pile	405	250

	Class	Subclass
Pipe joint	285	15+
Pipes and conduits	138	97
Refrigeration apparatus	62	298+
Process	62	77
Reknitting	66	1.5
Seal	29	402.3
Shaping non-metallic material	264	36
Shoes	12	142Q
Textile twisting	57	261+
Tools for tires	81	15.2+
Welding	228	119
Well	166	277
Repeater	340	425
Clock		
Alarm	368	248
Striker	368	267+
Fire signal system	340	291
Firearms and ordnance	42	2+
Automatic	89	125+
Revolver type	42	59+
Frequency division multiplexing	370	75
Light wave	455	601
Lock operator	70	270
Mechanical guns	124	19
Music leaf turner	84	513+
Pulse or digital	375	3
Radiotelegraphy	375	3+
Telegraph	178	70R+
Telegraph quadruplex	370	35
Telephone	379	338+
Relay	330	
Testing	379	4
Time division multiplexing	370	97
Watch	368	267+
Repellent		
Composition	106	2
Ink	101	422
Invertebrate	424	
Microbial pathogen	424	
Utilizing, glass making	65	24+
Vertebrate	424	
Replacer		
Railway		
Car	104	262+
Tie	104	9
Vehicle battery	104	34
Reproducers and Reproducing		
Control unit	D14	
Cutting machine	409	85+
Duplicating	409	93+
Electroforming processes	204	4+
Milling pattern controlled	409	85+
Photographic	355	
Sound	369	
Diaphragm and mountings	181	148+
Earphone	381	187+
Electric music instrument	84	600+
Electric phonograph type	369	127+
Electrical	369	135
Electrooptical musical instrument	84	1
Motion picture combined	352	1+
Phonograph	369	
Speakers	381	192+
Speakers, methods of manufacture	29	594
Telephone mechanical	181	138
Television	358	335+
Color	358	310+
Magnetic	360	33.1+
Repulsion Motors	318	725+
Resacetophenone	568	337
Resawing Machines	83	425+
Rescinnamine	546	54
Rescue Devices (See Lifesaving)	D29	
Resector	606	167+
Electric	606	39+
Coagulator	606	40
Endoscopic	606	49+
Urethrotome	606	170+
Reserpic Acid	546	54
Reserpic acid lactone	546	40
Reserpiline	546	48
Reserpine	546	55
Reservations, Computerized	364	407
Reservoir		
Brush, broom, mop attachment	401	140
Bulb type syringe combined	604	212+
Coating implement hand manipulable	401	
Fluid pressure brake systems	303	
Supplementary reservoir	303	85
Fluid sprayer combined	239	302+
Fountain pen filling mechanisms	401	143+
Liquid fuel burner	431	320+
Liquid fuel burner	431	344
Liquid fuel cooking stove	126	49
Liquid purification or separation	210	
Nuclear reactor combined	376	403
Pneumatic dispatch system	406	
Shaft lubricating	384	401+
Soap bubble device combined	446	15+
Writing pen attachment	401	252+
Reset		
Attack defeating locks with	70	1.7
Check controlled lock	194	247+
Fare registers	235	47+
Manual type for weaving		
Fabric take up	139	316
Warp letoff	139	113
Railway switches and signals		
Automatic switch	246	315
Automatic switch stands	246	280+
Automatic switch wheel reset	246	316
Switch stands	246	395+
Vermin trap		
Automatic	43	73+
Victim reset	43	76
Weaving pattern mechanism	139	328
Reshaping		
Apparatus for glass	65	286+
Reheating combined	65	269+
Processes for glass	65	102+
Resharpening (See Pencil Sharpener)		
Abrading processes	51	281R+
Files by sandblast	51	414
Residue Prevention in Humidifiers Air Conditioners	261	DIG. 46
Resilient		
Comminuting elements	241	102
Diaphragm dispensers	222	490
Material valves	137	843+
Railway tire cushions	295	11+
Supports	248	560+
Tires and wheels	152	
Wall dispensers	222	206+
Resinex T M (phenoplast)	528	129
Resins		
Dyeing	8	506+
Mineral oil	208	22+
Making, treating and recovery	208	39+
Natural		
Abrasives containing	51	300
Compositions containing	106	
Purification, preservation or recovery	530	200+
Rosin	530	228+
Rubber containing	524	274
Synthetic resins with (See synthetic resin or natural rubber)		
Resin bleach	8	DIG. 6
Synthetic (See also synthetic resin or natural rubber)		
Abrasives containing	51	298
Polymer (See 525 X-art collections)		
Reaction induced by electrical	376	190
Or within a nuclear reactor	376	156
Wave energy processes	522	100+
Resist		
Dyeing, cellulose ether or ester	8	446+
Etching	156	659.1+
Etching	156	904+
Resistance		
Aerodynamic resistance reducing	244	130
Brakes internal resistance	188	266+
Fluid	188	266+
Granular material	188	268
Operators regulator	188	270
Compositions electrical	252	500+
Light sensitive	252	501.1
Electrical	338	
Coatings	427	101+
Compositions	252	500+
Furnace	373	109+
Furnace arc	373	3
Furnace induction	373	6
Inductive	336	
Manufacturing	29	610.1
Strain gauge making	29	621.1
Measuring	324	691+
Systems	323	364
Telephone resistance elements	373	109
Heaters	219	200+
Electric furnaces	373	109+
Heating for electric stoves	219	391+
Incandescent lamps	315	71
Meters electric	324	691+
Music keyboard touch regulators	84	440
Of ships apparatus for measuring	73	148
Railway draft appliances springs varying	213	41
Regulators electric	338	
Speed responsive device	73	524
Wind motors steering and resistance devices	416	9+
Resistive Hygrometer	324	694
Resister (See Resistance)		
Resonance		
Audio receiver having	381	159
Electric filters	333	175+
Electric frequency meters having oscillating reeds	324	80
Frequency division telegraphy	370	45
Lock tampering defeating device	70	334
Music		
Banjo with resonance device	84	270+
Electric music device with tuned reproducer	84	723+
Harmonica with resonance chambers	84	378
Piano with resonance device	84	189+
Reed board with resonance device	84	362
Rigid vibrators with resonance device	84	410
Stringed instrument with resonance device	84	294+
Tuned sound generator with electric pickup	84	723+
Relays	335	94
Selective system	340	825.39
Relays	335	101
Test by mechanical vibration	73	579+
Resonant Transmission Line	333	236+
Resonator		
Amplifier with	330	
Cathode ray tube including	315	3+
Cavity type		
Amplifier system with	330	56
Cathode ray tube combined	315	4
Magnetron combined	315	40
With electron beam amplifier	330	45
With magnetron amplifier	330	47+
With push pull amplifier	330	55
Distributed parameter type	333	219+
Electronic tube with	315	40
Magnetrons with	315	39.51
Oscillators with	331	
Radio receiver with	455	130+
Tank circuit	334	
Tuned tank circuit	334	
Resorcinol	568	763+
Azo compound ctg.	534	682+
Respirator	128	200.24+
Rest		
Armrest support	248	118
Writers	248	118.1+
Ash tray with cigar or pipe rest	131	240.1
Bed attaching body rest	5	431+
Billiard cue rest	273	23+
Book combined with cabinet	312	233
Book copy and music leaf	248	441.1+
Copyholder, movable copy	40	341+
Casket grave rest	27	26
Chair or seat armrest	297	411+
Chair or seat footrest	297	423+
Chair or seat headrest	297	391+
Cigar or tobacco pipe support	131	257+
Closet head foot and body rests	4	254
Coffin headrest	27	13
Control lever and linkage foot rest	74	564
Crutch armrest	135	73
Gun rest	42	94
Hand and arm rests	248	118+
Writers aid	248	118.1+
Knee pad apparel	2	24
Land vehicle body footrest	296	75
Pianists exercising armrest rail	84	469
Piano pedal footrest	84	232
Sofa arm	5	52
Stringed instrument arm or hand rest	84	328

Tool

	Class	Subclass
Lathe	82	157+
Turning axial pattern pivoted	82	12
Wood turning	142	48+
Typewriting bar machine	400	454+
Velocipede footrest	280	291
Violin chin rest	84	278+
Work		
Lathe	82	157
Reaction induced by electrical	51	238R+
Wood turning	142	50
Woodworking workbench	144	287
Restrainers		
Aircraft	244	110R+
Animal	119	96+
Breaking and training harness	54	71+
Bed clothing	5	498
Bedspring	5	261
Combination lock tumblers	70	327
Human	128	869+
Patient or infant	128	846+
Seat occupant	297	464+
Restrictor	138	40+
Valve combined	251	118+
Retainers (See Closure; Holders)		
Animal draft parts	278	
Apparel	2	300+
Bait fishing	43	44.2+
Inclosed baits	43	41
Bandage	128	171
Barrel hoop	217	93
Broken parts		
Check valve	137	540.11
Pipe joint	285	117
Casting sand	164	379+
Circuit	178	72
Dams	405	107+
Freight load on freight carrier	410	
Load bearer, eg container	410	77+
Hair		
Comb	132	144+
Curler or crimper	132	245+
Pin	132	276+
Heat		
Accumulator type stove	126	400
Fireless cooker	126	273.5
Furnace	110	322+
Water accumulator type	126	375
Key in lock	70	429
Levees	405	107+
Load, land vehicle	280	107
Necktie knot	2	152R+
Orthodontic	433	6
Packing	277	189
Packing attached	277	181+
Picture frame cover	40	157
Picture in frame	40	156
Pin		
Railway car stop	104	251
Receptacle closure	220	315
Bottle and jar	215	306
Tethered	220	375
Tethered dispenser type	222	543
Shaft or spindle		
Pintle caster	16	38+
Pintle hinge	16	263
Thill coupling	278	60+
Trace eye end	278	105+
Shoe and boot	36	58.5+
Shoe on last	12	141
Strand	24	115R+
Conductor or insulator	174	168+
Picture suspended	248	489+
Umbrella	135	37+
Water		
Earth control	405	107+
Wharves retaining wall type	405	284
Retarders (See Brakes)		
Airplane	244	110R+
Camera shutter	354	256+
Chute	193	32
Clutch	192	109R
Compositions		
Mortar	106	819+
Door	16	82+
Closer combined	16	49+
Drying processes	34	7
Electric switches and circuits		
Electromagnetic latch trip switch with	335	172+
Electromagnetic switch with	335	59+
Electromagnets with	335	239+
Railway car actuated switch	246	248
Tensioner	226	195
Endless web feeding	226	195
Fluent material movement	138	40+
Brake systems	303	84.1
Sheet delivering	271	182+
Sheet feeding	271	229+
Ships speed in steering	114	145R
Skidway	193	40
Spring	267	195+
Switch with	200	33R+
Ventilator rotary	98	120
Retene (See Aromatic Hydrocarbon)	585	400+
Reticulated (See Type of Article or Device)		
Reticules	33	297
Retinoscopes	351	205+
Retort		
Closed garbage incinerating	110	242
Distilling	202	
Heating and illuminating gas generating	48	
Liquid fuel burners	431	207+
Furnaces	431	161+
Metallurgical	266	153
Mineral oil vaporizing	196	104+
Multiple chamber	432	207+
Rotary	432	103+
Rotary garbage incinerating	110	246
Single chamber	432	212+
Retouching	354	348
Stands	354	349
Retracting (See Retractors)		
Comb	132	129+
With brush	132	121
Handles key controlled	70	208
Knife	30	162
Landing gear airplane	244	102R
Manicuring tool	132	76.2
Money slot toy bank	446	13
Pen tool	401	99+
Wheel or runner land vehicle	280	9+
Retractors	254	
Hose	242	
Dental	433	78
Surgical	128	20
Retreading	264	326
Apparatus	425	201+
Retrievers		
Ball	294	19.2
Trolley	191	85+
Well	294	86.1+
Combined type	166	99
Enclosed receptacle	166	162+
Hoist bucket type	294	68.1+
Retting	162	1+
Bacteriological	435	278
Reveal Cover	52	212
Reverberator	381	63+
Reversible and Reversing		
Belt & pulley drive	474	1+
Bowl for smoking devices	131	221
Camera	354	288
Chisel	144	77
Closure bolt	292	244+
Clutch		
Gearing combined	192	21
Multiple	192	51
One way drive	192	43+
Electric current		
Brush shifters	310	241
External electric car propulsion systems	104	302
Telegraph current reversing	178	16
Telegraph key reversing	178	105
Fluid current		
Filter cleaning, automatic	210	108
Filter cleaning, process	210	767+
Filter cleaning, valved	210	427
Ion exchange or sorption process	210	660+
Pump supply	417	315
Sanders	291	5+
Furnace draft	110	
Garment	2	301
Gearing	74	640+
Planetary	475	
Vehicle combined	280	236+
Hinge	16	265+
Jaws for wrenches	81	178
Lock	70	462
Mechanical movement	74	144+
Motors		
Expansible chamber	91	
Internal combustion engine	123	41R
Turbine	415	
Planer	409	336
Rail	238	132+
Rolling mill	72	229
Sanders	291	26
Saw teeth	83	836
Scoop	37	139
Seat back, eg walk over	297	94+
Seat bottom and back	297	92+
Ship propulsion	440	
Spittoon	4	279
Stove	126	23
Tie plate	238	301
Tools and implements		
Cutting	56	266
Drill	408	124+
Toy	446	442
Turntables	104	35
Automobile	104	44
Typewriter ribbon	400	218+
Valves	137	309+
Multiway	137	270.5
Wood shaper	144	148
Revertible and Reverting		
Sofa bed back	5	37.1+
Stove draft base heating	126	75
Hot air stove	126	69
Magazine type	126	74
Revetments	405	16+
Revivification		
Adsorbent	502	20+
Batteries	429	49+
Individual parts	429	49
Catalyst	502	20+
Revolvers		
Design	D22	104+
Firearms	42	59+
Cylinder loaders	42	89
Firing mechanisms	42	65+
Toy	42	58
Revolving Doors	49	42+
Reweaving	139	1F
Darning looms	139	33.5
Patches	2	243R+
Rewinding (See Winding)		
R F Diode	313	317+
With emissive cathode	313	310
With thermionic cathode	313	310
R F Power Amplifier	330	
Rheo-casting	164	900*
Rheostat	338	68+
For lights	362	295
Rhodamines	549	227
Rhodanate (See Thiocyanate)		
Rhodium (See Platinum)		
Rhodols	549	225
Rhumbatron	333	227+
Cathode ray tube	315	5+
Rib		
Concrete construction	52	319+
For piano sounding boards	84	195
Saw gin	19	62R+
Umbrella	135	31
Ribbon		
Feed		
Cap pistol	42	57
Cigar or cigarette making	131	84.1
Tobacco bunch precompressor	131	42
Typewriter	400	223+
Hair	132	275
Inkers		
Printing (See type machine with which associated)	101	336
Typewriter	400	197+
Instruments, wires &	33	DIG. 7
Joints or couplings	403	
Looms	139	22
Motion	139	135+
Needle looms	139	442
Packages	206	389+
Resistance element	338	279+
Shuttles	139	199+
Spool holder	242	71.8+
Typewriter	400	237+
Winding spools	242	71.8
Riboflavin	544	251
Bio-affecting compositions	514	251
Ribose	536	1.1+

	Class	Subclass
Rice		
Bran	426	618+
Cleaning and polishing	426	481+
Apparatus	99	600+
Planters	111	911*
Ricinoleic Acid	260	413+
Ricks		
Hay straw	414	132
Rickshaw	224	159
Riddles	209	331+
Ridge		
Bed pole	5	130
Gondola car drop bottom		
Central	105	245
Rising	105	246
Ridging		
Plow	172	701
Riding		
Boots	D 2	271+
Equipment	D30	134+
Rifamycins	540	458+
Rifles		
Liquid suspension separator having	209	206
Stratifier having	209	506+
Rifles (See Gun)		
Automatic	89	125+
Carrier	224	913*
Receiver holding butt end	224	149
Sling carrier	224	150
Design	D22	103+
Firearm	42	
Ranges	273	348.1+
Recoilless	89	1.7+
Targets	273	348.1+
Rifling		
Cutting	409	306
Firearm barrel	42	78
Rigging		
Brake	188	2R+
Sails and rigging	114	102+
Ships implements	114	223
Rigs		
Earth boring	175	
Rim		
Breaker	157	1.35
Compressor	157	2
Demountable	301	10R+
Gear		
Segmental	74	448
Separate	74	446+
Handwheel grip or cover	74	558
Integral for tires	152	378R
Locks for	70	260
Making	29	894.35+
Pulley	474	166+
Expansible	474	47+
Cone pulley	474	8+
Separable for tires	152	396+
Tire rim bands	152	513
Wheel	301	95
Ring (See Band; Collar)	16	108+
Container for annular article	206	303
Fasteners connectors or supports		
Article holding bracket	248	315
Bolts closure fastener	292	299
Bottle and jar closure	215	274+
Demountable rim	301	26+
Draft pole coupling	278	125
Filter medium	210	495
Gimbal shaft coupling	464	125+
Handled filter	210	471
Insulator cap type	174	192
Insulator pin type	174	198
Metal receptacle closure	292	256.6+
Panel to track attaching	16	87.2+
Pipe conduit bracket	248	69
Pipe conduit bracket	248	74.1
Pipe conduit suspended	248	62
Shaft joint	403	
Spring lamp shade support	362	440
Tire to rim	152	409+
Tobacco users finger	131	258
Handle	16	127
Jewelry		
Earrings	63	12+
Design	D11	40+
Finger	63	15+
Design	D11	26+
Trays for	206	566
Key	70	456R+
Design	D 3	61+
Lock cylinder	70	381
Locking, bolt or nut to substructure lock	411	109
Magnetoelectric apparatus	228	179
Armature retaining	310	271
Electric heating	219	51+
Electroforming process	204	9
Grinding process	51	290+
Jewelry forming and sizing	29	8
Packings	29	888.7
Rolling	72	67+
Slip	310	232
Spinning, twisting, twining		
Apparatus	57	21
Process	57	21
Welding process	228	179+
Winding ring wound armature	242	4R+
Wire	140	88
Making by deforming metal	72	
Gem and jewel setting	29	10
Napkin holder	D 7	633
Nose animal	119	135
Piston	277	
Slip for electric current machine	310	232
Snap ring	24	16R
Spinning frames	57	75
Textile spinning element	57	119+
Tire bead grommets	245	1.5
Trapeze	272	61
Trim	301	37R
Watchcase movement	368	299
Welding backup	228	50
Joint integratable	285	21
Ringers and Ringing		
Telephone		
Automatic	379	232+
Party line	379	179+
Rinks, Ice	62	235
Grooming apparatus	37	219+
Rinsing		
Solid work pieces	134	
Textiles and fibers		
Machines	68	
Methods	8	147+
Rip Strips		
For metal containers	220	266
For paper boxes	206	601+
Riprap	405	32+
Risers		
Bed bottom		
Corner riser	5	205+
Frame shiftable on riser	5	209
Railway car folding step	105	448
Railway switch	246	432
Nonderailing	246	421
Sand mold	164	359+
Stair riser carpet fastenings	16	11
Rivet	411	500+
Design	D 8	386
Making	10	11R+
Seal type	292	314
Riveting		
Blind	227	51+
Button riveting machine	227	51+
Design	D15	122+
Driving and heading	227	51+
Electric heating and	219	150R
Hollow rivets	227	51+
Solid rivets	29	243.53+
Riving	144	182+
Shaving combined	144	40
Roads	404	
Cement structure	404	71
Chair	404	136
Curb	404	7
Expansion joints	404	47+
Finishing by compacting	404	113+
Grader	37	108R+
Gravelling means	404	101+
Gutter or drain	404	2+
Land roller	404	122+
Manhole cover	404	25
Pavement	404	17+
Apparatus for making	404	83+
Crushing in situ	404	90
Marking	404	93+
Paving machinery	404	83+
Process for making	404	72+
Railroad	238	2+
Railway graders	37	104+
Reinforcement	404	134
Roadbed	404	27+
Screed or drag	404	118+
Street curb sewage inlet	404	4
Surface marker, signaller	D10	113
Tamper	404	133
Testing	73	146
By abrasion etc	73	8
Traffic barrier	404	6+
Traffic directors in pavement	404	9+
Mirrors and reflectors	404	14
Roaster		
Coffee	99	286
Domestic ovens	126	273R+
Gas ovens and broilers	126	39R+
Metallurgical	266	171+
Miscellaneous materials	432	
Rotary driers	34	108+
Spits	99	419+
Stove broiling attachments	126	14
Vegetable and fruit peelers	99	483
Processes	426	479+
Roasting		
Coffee	426	523
Metallurgical apparatus	266	171+
Smelting combined	266	175
Robes		
Apparel	2	69
Design, ceremonial	D 2	79
Design, housecoat	D 2	12+
Locks for	70	60
Vehicle lap robe holders	296	77+
Robot	901	
Arm movement	901	14+
Control, electric	318	568.11+
Coating	901	43*
Compliance device	901	45*
Control, electric	318	568.11+
Counterbalance	901	48*
Drive systems	901	19+
Electric	318	568.11+
Gearing	901	25*
Grip	901	31+
Industrial		
Grappling functions	294	86.4+
Magnet or piston controlled	294	88
Pivoted jaws	294	106
Gripper functions, body	623	64
Fluid actuated	623	57+
Material or article handling	414	4+
Horizontal linear motion	414	753
Horizontal swing motion	414	744.1+
Vertical swing motion	414	730
Motion and control, electrical	318	568.11+
Spray painting	118	323
Structure, control lever and linkage systems	74	469+
Welding functions	219	125.1
Inspection	901	44+
Mechanically actuated	901	11+
Mobile	901	1*
Control, electric	318	568.12
Programmable		
Article handling	318	568.11+
Artificial intelligence	364	513
Speech signal processing	364	513.5
Self organizing controls	364	513
Safety device	901	49*
Sensor	901	46+
Spray painting	901	43*
System	901	6+
Teaching system	318	568.13+
Track-guided	901	14+
Welding	901	42*
Wrist	901	29*
Rochelle Salt	562	585
Rock		
Bits	175	
Blasting	102	301+
Methods	102	301+
Drilling machines	175	
Rocker		
Arms machine elements		
Poppet valve operating, internal combustion engine	123	90.39+
Bearings		
Pivot	384	154+
Shaft	384	154+
Spinning spindle	384	238
Bogie truck	105	187
Chair	297	258+
Design	D 6	344+

	Class	Subclass
Platform	297	261+
Cradle	5	105+
Platen for typewriter	400	649+
Sled runner	280	26
Rocket		
Aeronautics		
Airplane sustained & propelled	244	12.1+
Airship sustentation and propulsion	244	29
Chemical reaction propulsion methods	60	205+
Design	D12	16.1
Propulsion	244	74
Propulsion airplane sustained	244	15
Steering	244	52
Sustentation	244	23R
Design (pyrotechnic)	D22	112
Launchers	89	1.7
Launchers	89	1.8+
Target design	D22	113
Making	29	890.1
Motors	60	200.1+
Propellants	149	
Solid suspensions	149	17
Propulsion		
Aircraft (See rocket aeronautics)	244	74
Composition for	44	300+
Self sustaining	149	
Marine	440	38+
Missile	102	374
Pyrotechnic	102	347+
Steered ships	114	151
Stick or support combined	102	349
Rocking		
Bar grate	126	176R+
Progressive feed	110	278+
Horse	272	52+
Rockwool Compositions	501	36
Rodenticides	424	
Rods		
Antenna	52	632
Mechanism extensible	52	111+
Vehicle shell attached	52	110
Antenna	343	900+
Base for signal rods	248	347
Brake	198	67
Carpet fastening stair	16	12+
Connecting	74	579R+
Locomotive	105	84
Railway switch	246	452
Construction toy element	446	85+
Control		
Nuclear reaction	376	207
Nuclear reaction	376	219
Nuclear reaction	376	327
Couplings and joints (See joints pipes, shafts, rods & plates)		
Curtain rod ornaments	52	301
Curtain rod threaders	223	105
Threading device	223	105
Cutters	30	92+
Earth boring combined	175	320+
Fishing	43	18.1+
Fluorescent	250	462.1
Lathe feed	82	141
Light transmitting	350	96.1
Illumination	362	32+
Lightning rod	174	3
Lock for control	70	181
Transmission shift	70	247+
Making		
Forming tobacco	131	84.1
Process	72	365.2+
Rolling screw threads on	72	95+
Wrapping tobacco	131	58+
Metal	428	544+
Mill	241	170+
Nuclear fuel	376	261
Nuclear fuel	376	347
Nuclear fuel	376	409
Piston hollow pump	417	547
Push or pull		
Bell	116	165
Janney coupling	213	162
Poppet valve operating, internal combustion engine	123	90.61
Side track	213	224
Train brake	188	148
Radiator supported	248	234
Reinforcing	52	720+
Road	404	134+
Supporting brackets	248	251+
Supports horizontal	211	123+
Driers	34	240
Locked	211	7
Surgical transparent light applicator	128	398
Surveyors	33	293
Tie railroad	238	50+
Truss or brace (See support)		
Props	248	351+
Radius rod	188	191
Rail joint	238	168
Ullage	33	721+
Welding electric	219	56+
Welding, holders	228	57
Roentgen Ray (See X Ray)		
Roll Bar, Automotive	280	756
Roll-top Desk	D 6	433
Rolling (See Coiling)		
Bread pastry and confection molding	425	
Forging and rolling machines	72	206
Kinesitherapy appliance	128	57+
Metal	72	199+
Pin, combined or convertible	7	111+
Reworking worm metal by rolling		
Apparatus	72	221+
Method	72	365.2+
Sheet material associating or folding	270	32+
Stock for railways	105	
Rolling Pin	29	110.5
Combined or convertible	7	111
Rolls & Rollers (See Associated Function or Device, Notes to 29-110))	29	110+
Automatic sorting by	209	618+
By sizes	209	673
Bakery item	D 1	129
Bearing type	384	565+
Bearings		
Machine elements	384	
Making	29	898.68
Typewriter bar	400	448+
Typewriter carriage	400	354+
Vehicle frame	280	105
Bed bolster	5	491
Cameras	354	202+
Carding cylinders	19	112
Clasps	24	488
Coating by electrolysis	204	25+
Collocating gauges for	33	657
Combining cylinders	19	128
Combs with tuned teeth	84	96
Comminuting	241	293+
Roll mills	241	221+
Corrugated surface	172	537
Couplings	403	
Currycombs, rotary	119	91
Curtain, shutters, shades & awnings		
Curtain rod support combined	248	252
Flexible & portable panels etc	160	238+
Panel hangers and travelers	16	87R+
Protective shields for counters	109	14
Reeling and unreeling fabrics	242	54R+
Supports	248	266
Vehicle	296	138+
Vehicle covers	296	98
Dispensers having	222	
Distance measuring by rolling contact	33	772+
Fabric	33	734+
Drying apparatus	34	240
Educational devices	434	402
Electroforming reproductions	204	9
Expressing	100	121
Clothes wringers	68	244+
Fluid treated tobacco	131	307
Fabric manufacturing		
Cotton boll hulling	19	35+
Felting	28	130+
Fiber carding	19	98+
Fiber drawing	19	236+
Ginning	19	39+
Napping	26	29R+
Sliver forming	19	152
Spinning etc	57	
Spreader	26	99+
Web condition responsive nip control	26	78
Web edge position correcting	26	77
Weaving	139	
Feeding and conveying		
Cigar and cigarette making	131	
Circular wood saw	83	436
Continuous casting with mold	164	448
Continuous casting without mold	164	442
Copyholders	40	344+
Cutting and punching sheets and bars	83	
Label pasting strip severing	156	510
Leather skiving etc	69	13+
Live roll	198	780
Metal stock and blank	29	724
Mounted on endless conveyor	198	779
Panel hangers and travelers	16	87R+
Raisin seeders	99	558
Reciprocating wood saw	83	425+
Roller jacks	193	42
Rollerways	193	35R+
Self loading vehicle with	414	467+
Shingle sawing machine	83	706
Store service carriers	186	31
Troughing conveyor belt	198	818+
Typewriter	400	636+
Vegetable etc cutter	83	
Wood shaving	144	158
Wood slicers	144	181
Wood splitting	144	195
Work for abrading devices	51	
Work for woodworking machine	144	246R+
Film on spool	206	389
Filter residue contacting	210	386
Food	426	549+
Design	D 1	129
Ginning	19	54
Grinders for	51	49
Attachments	51	251+
Frames and mounts	51	179
Grinding processes	51	289S
Hair dressing foundations	132	55
Handlers for rolls	414	911*
Hawse pipe friction	114	181
Heaters fluid fuel	126	410
Heating or cooling	165	89
Irregular surface type	29	121.1+
Checkerboard type	29	121.2
Dandy roll	29	121.3
Metal deforming roller	72	191+
Sandblast type	29	121.8
Kinestherapy type applicators	128	57
Land		
Corrugated clod crushers	172	537
Cotton chopping plow	172	518+
Cultivator combined	172	133+
Earth working tool with	172	133+
Harrow combined	172	133+
Harrow type	172	518+
Motor vehicle with	180	20
Plow	172	518+
Plow colter	172	518+
Plow combined	172	166
Potato diggers toothed	171	98
Revolving moldboard plow	172	167
Road and pavement	404	122+
Toothed clod crusher	172	540+
Leather working	69	
Machine or tool part		
Cigar making machine	131	27.1+
Clothes wringers	68	244+
Cutting tool blade	30	319
Earth boring drills	175	331+
Gear teeth	74	465
Harvesting pickers or huskers	56	104+
Ironer rolls and covers	29	110+
Key operated locks	70	386
Meat tenderers	17	25+
Mop wringers	15	262
Plural blade cutting tool	30	306+
Shoe sole laying and leveling	12	34
Shoe toe etc stiffener molding	12	65
Textile fluid treating	68	
Textile ironing or smoothing	38	
Textile roll for ironer	38	62
Thermometer combined	374	153
Work and tool forming part of circuit	374	180
Tinners	72	101
Tobacco fluid treatment	131	307
Tobacco treatment	131	324+
Tool clutch	81	183
Washboards	68	231
Wringer rolls	29	110+
Making	29	895+
Bearing type	29	898.6+

	Class	Subclass
Material applying		
Belt etc lubricator	184	17
Elevator guide lubricator	184	23
Inkers for printing devices	101	335+
Lubricator	184	101
Magazine label affixing	156	
Painting combined with supply means	401	208+
Printing	101	
Railway car journal box lubrication	384	177+
Rotary shaft lubrication	384	407
Metalworking	72	199+
Beading and crimping	72	102+
Bearing type making	29	898.6+
Bending	72	
Chain making	59	4
Conical wire spring making	72	138+
Continuous metal casting	164	448+
Corrugating	72	180
Cutting and punching sheets	83	
Forging and	72	206
Grooving	409	304
Horseshoe blanks and bars	59	63+
Horseshoe nail forging	10	66+
Ornamental chain multistrand	59	81
Rolling with other steps	29	DIG. 32
Saw making stretching	76	27
Screw threads	411	411+
Sheet metal container making	413	
Walking-form	72	220
Welding apparatus	228	
Wire feeding	72	419
Wire straightening	72	226+
Wire tension device	72	183
Wrought spike making	10	58
Motor vehicles with	180	20
Painting implement	D 4	
Paper article making		
Calenders	100	155R+
Web forming	162	357
Picking	19	97
Plastic material		
Block etc apparatus	425	363+
Block press with pressure	425	362
Bread, etc., molding	425	363+
Bread mixers, kneaders, etc	366	69+
Casting rollers	425	223+
Casting rollers	425	363+
Glass molding	65	253+
Rolling pins	29	110.5
Combined other tools	7	111+
Pressure		
Electrophotographic copier	355	277
Electrophotographic copier	355	290
Embossing	101	3.1+
Leather manufactures	69	
Metal bending	72	
Mill type	241	293+
Mills	241	221+
Plastic block mold with	425	362
Plastic block mold with	425	363
Wood veneer lathes	144	213
Wood veneer presses	156	349
Woodworking blank feeders	144	246R+
Railway		
Cable grippers with guide	104	202+
Car replacers	104	266
Derailment guards	104	245
Live rail traction	104	168
Sled track	104	135
Sounding toy rolling stock	446	410
Suspended	104	89+
Track curves	238	16
Railway car freight contacting	105	392
Railway wheel tread with multiple	295	32
Rolled material		
Bandage rolling	242	60
Bandages	128	170
Cloth bolts boards etc	242	222+
Cores and holders	242	68+
Covers for toilet seats	4	247
Fabric delivery roll holder	242	55.2+
Fabric measuring	33	732+
Paper dispensing packages	206	389+
Reeling and unreeling fabrics	242	55+
Ribbon etc packages	206	389+
Selectors for automatic musical instruments	84	115+
Rollerway		
Bearings for	384	418+
Conveyor	193	35R+
Live roll conveyor	198	780+
Railway live roll traction	104	168
Railway track curves	238	16
Roller jacks	193	42+
Shelf type rack mount	211	151+
Sled track	104	135
Track antifriction	384	549
Seed testers	47	15
Ship fenders	114	220
Shutters photographic	354	226+
Skates	D21	226+
Toothed for earth working	172	122
Toothed for unearthing	171	13+
Vehicle		
Chafe iron	280	161
Fenders diverging	293	18
Pilot type fender	293	49
Vehicle trolley	191	56
Vehicle type	180	20
Skates	280	11.19+
Woodworking		
Saw table gauges	83	471+
Sawing	83	
Spool making	144	14
Turning	142	
Turning and boring	408	
Turning and polishing	144	47
Turning and sawing	144	48
Roman		
Candles	102	357
Cement	106	739+
Rompers	2	400+
Design	D 2	33+
Rongeur	606	83
Roofs and Roofing (See Cover)	52	
A-frame	D25	29
Car	52	45+
Clerestory	52	18
Conical	52	82
Cupola	52	200
Curved or vaulted	D25	18+
Design	D25	56+
Dome	52	80+
Floating for liquid storage tanks	220	216+
Gable end	52	94+
Gambrel	D25	24
Inclined	52	90+
Land vehicle	296	98+
Lapped surfacing or shingles	52	518+
Making		
Laminated fabrics	156	
Roofing tile	425	134
Roofing tile	425	218+
Roofing tile	425	289+
Mansard	D25	25
Movable	52	66
Pipe joint flashed	285	42
Rack for vehicle	D12	157
Running board	52	41+
Sawtooth	52	18
Scaffolds	182	45
Brackets	248	237
Sewage ventilator	4	218
Sheet	428	147+
Suspended	52	83
Tile	428	147+
Truss, work holder for	269	910*
Root		
Crops		
Diggers and harvesters	171	
Flax and stalk puller	171	55+
Feeder and irrigator	47	48.5
Puller		
Grapple type	294	86.4+
Hand fork or shovel type	294	49+
Lever type	254	132
Wheel mounted for stalk pulling	171	55+
Rope	57	200+
Block and tackle	254	389+
Braided	87	8+
Clamps	24	135R+
Design	D 8	72+
Connectors	24	115R+
Covering machines	57	3+
Drum hoist	254	266+
Jumping	272	75
Ladders	182	196+
Making wire	57	3+
Shifters	474	101+
Testing	73	158
Thimble	294	74
Towing	280	480
Untwisted strands	428	364+
Rosanilines	552	114+
Rosary	235	123
Design	D99	26
Teaching	434	246
Roses		
Door knob plate	292	357
Plants	PLT	1+
Spray rose or pipe	239	548+
Gravity sprinkler type	239	376+
Rosette	428	4+
Rosin	530	210+
Detergents including	252	107
Distillation processes	203	
Plant source extraction	47	10+
Soaps	530	224+
Mixtures containing	252	367+
Rosindulins	544	343
Rossing Machines, Bark	144	208R
Rotary		
Advancing shaft driving table	464	163+
Earth boring combined	175	19
Beater	241	185R+
Agitator	366	
Cutter (See notes to)	30	347
Cutters for tiller blade	D15	28
Drum for abrading	51	164.1+
Engine	415	
Exhaust reactor separator	60	902*
Exhaust treatment	60	901*
Plural rigidly related blade sets	415	198.1+
Expansible chamber devices	418	
Heat exchanger	165	86+
Kinetic fluid motor or pump	415	
Liquid filter	210	359+
Perforate cage	241	86+
Piston engine	123	200
Plural machines	241	138
Series flow	241	154
Processes	241	27
Rotary saw	30	388+
Sprayers	239	225.1+
Centrifugal force	239	214+
Switches electric	200	564
Rotator		
Poppet valve	123	90.1+
Internal combustion engine	123	90.28+
Rotenones	549	328
Rotisserie	99	419+
Rotogravure	101	212+
Printing plates	101	375+
Photographic preparation	430	300+
Rotor		
Electrical	310	261
Meter	324	154R+
Machine element or flywheel	74	572+
Vibration damping means	74	574
With balancing means	74	573R
Motor	60	
Internal combustion	123	
Rotary expansible chamber	418	
Propulsion or sustentation	416	
Aircraft combined	244	
Railway combined	105	66
Ship combined	440	
Pump		
Air or gas	415	
Liquid	415	
Revolution counter	235	103+
Turbine	415	
Unbalance measuring	73	66
Valve (See valves)		
Winding electric armature	242	
Cylinder winding	242	7.4
Method cylinder or drum	242	7.3
Ring winding	242	4R+
Transversely slotted drum	242	7.5 R
Windmill	416	
Rouge	51	307
Cosmetics	424	63+
Polishing	51	309
Roughners		
Leather	69	6.5
Roulettes	273	142R
Roundabouts	272	28R+
Rounders	5	172
Rounding		
Book back	412	30
Leather machine	69	6

	Class	Subclass
Shoe sole	12	85*
Roving	19	236
Frames	57	315*
Row Forming Apparatus	414	798.2*
Rowing		
Exercising machines for simulating	272	72
Land vehicles	280	224
Land vehicles	280	225
Oars	440	101*
Rowlocks	440	106*
R T, ie Receive Transmit or Transmit Receive	333	13
Rubber (See also Synthetic Resin or Natural Rubber)	520	1*
Bale cutter	83	
Band	206	805*
Cutting	83	
Dyeing		
Preformed	8	513
Electrophoretic processes	204	180.3*
Eraser	15	424*
Natural (See synthetic resin or natural rubber)		
Plant source extraction	47	10*
Product manufacturing, computerized	364	473
Punching	83	
Reclaiming		
Cutting from tire	82	
Roughening file	29	78
Shoes	36	4
Heels	12	147A
Making	12	142E
Overshoes	36	7.3
Making	12	142EV
Soles	12	146BR
Attaching process	12	146B
Stamps	101	368*
Endless band	101	111
Factice	260	399
Handles	101	405*
Reaction induced or within nuclear reactor	376	156
Vulcanization		
Molding processes	264	
Working apparatus	425	200
Rubbing (See Scrubbing)		
Amalgamators	209	67
With fluid suspension	209	191
Animal antivermin treatment	119	157
Cloth finishing	26	27*
Contact circuit maker or breaker	200	561
Multiple circuit	200	118*
Rotating contact	200	570*
Contact coating (See pencil)	401	49*
Test	73	7
Thread finishing	28	219*
Washboard surfaces	68	226*
Rubidium		
Preparation	75	745
Pyrometallurgy	75	589*
Rubijervine	546	38
Ruching		
Design	D 5	7*
Making	2	244
Packages	206	49
Trimming stock	112	427
Rudder		
Aircraft	244	87*
Bars and pedals aircraft	244	235
Bomb	102	384
Position indicator	116	303
Ship or boat	114	162*
Ruffles	112	132*
Sewing	112	9
Trimming design	D 5	
Rug (See Carpet)		
Braided	428	37
Vehicle floor mat	D12	203
Ruggedized Electronic Tubes	313	
Ruhmkorff Coils	361	270*
Rule and Ruler		
Blotter combined	34	89.2
Design	D10	71*
Geometrical instrument	33	483*
Folding	33	458
Printing	101	400
Punching machine combined	83	
Slide		
Bar	235	70R
Cylinder	235	79.5
Disk	235	84
Ruling Machines	33	19.1*
Ruling Pens	401	256*
Fountain	401	233
Rumble (See Tumbling)		
Coating apparatus	118	417*
Pills and confections	118	19
Coating processes	427	242
Run Preventing		
Swelling or plastizing	8	131
Rungs		
Ladder	182	194*
Collapsible with slidable rungs	182	195
Independent	182	228
Wall attached	182	90
Runner		
Earth working tool with	172	
Gear		
Land vehicle	280	80.1*
Occupant propelled vehicle	280	281.1*
Hand rake ground support	56	400.15
Harness bridle gag	54	14
Land vehicle	280	845*
Combined wheeled	280	8*
Convertible wheeled	280	7.12*
Rigging sails	114	111
Rope		
Cable hoist	212	99
Elevator control	187	45
Railway traction	104	180*
Scoops	37	118R*
Shoes	36	129
Skates	280	11.12*
Spring wire and runner mop holder	15	154
Stitch	112	173*
Track cable hoist	212	90
Umbrella	135	28
Retainer	135	38*
Walking plow	172	360
Land vehicle	280	163*
Lights	362	81
Railway car	105	457
Running Board Lights	362	81
Runway (See Conveyor)		
Engaging fasteners	24	580*
Gangway	14	70*
Marble toy	446	168
Rupturing Devices		
Rupture proofmetal receptacles	220	900*
Seal	292	243
Hasp combined	292	287
Shackle combined	292	331
Testing	73	838*
Rush, Furniture	D 6	369
Rust Inhibiting (See Anticorrosion)		
Removing	29	81.1*
Cleaning	134	
Electrolytic	204	141.5*
Rut Cutter	37	220
Ruthenium (See Platinum)		
Rutile	423	610
Rutin	536	8
Saber	30	165*
Sabots	102	517*
Saccharic Acid	562	582
Preparation from carbohydrates	562	515
Saccharides	536	1.1*
Saccharifarous Material	127	
Condiments and flavors	426	548*
Fermentation	435	
Saccharimeter		
Chemical analysis	422	68.1*
Fermentative test	435	4*
Hydrometer	73	32R*
Optical analysis	356	366
Saccharin	548	211
Sachet	D28	5
Slow diffuser	239	53*
Sack (See Bag)		
Cleaning with air	15	304
Closing	53	285*
Sewing filled sacks	112	11
Closures for flexible bags	383	42*
Filling and packing machines	53	570*
Holders	248	95*
Sewing	112	
Suspensory bandage	128	162
Separable	128	161
Turners	414	754*
Weighing support	177	160
Sacramental Receptacle	206	19
Saddlebags	224	191*
Saddles and Appurtenances		
Bed bottom top saddles	5	258
Boot and shoe last	12	127
Building, roof running board or saddle	52	41*
Cable railway	104	115*
Clamp		
Joint & connection	403	234
Joint & connection	403	237
Pipe coupling, end to side or plate	285	197
Pipe elbow, cooperating clamp	285	180
Clutch shipper	192	98
Design	D30	135*
Fiber preparation, rolling fibers through stirrup & saddle	19	273
Garment support cord retainer	2	341*
Locomotive boiler	105	44
Pack	54	37
Rail joint	238	224
Rail seat	238	280
Railway		
Cablerail hanger & saddle	104	115*
Car replacer, one-way saddle	104	270
Freight tank saddal & anchor	105	362
Locomotive steam boiler saddle	105	44
Riding	54	37*
Design	D30	135
Rack, stand, holder design	D30	143
Saddlebag	224	191*
Velocipede	297	195*
Velocipede design	D 6	354
Seat		
Design, post or support	D12	119
Detachable window seat as fire escape	182	59
Saddle actuated simulation of land vehicle	280	1.183
Straddle seat	297	195*
Support, special mounted post attached	248	219.4
Shoemakers work support	12	127
Tank car	105	362
Textile fiber drawing	19	284*
Sadiron (See Flatiron)		
Design	D32	68*
Safelight	362	3*
Photo safe lamp	362	803*
Safes and Safety Deposit (See Box)	109	
Buoyant	441	32
Deposit and collection	232	
Depository with verication means	109	24.1
Photograph as record	346	22
Design	D99	28*
Incidentally movable safe	109	45*
Match	206	96*
Design	D27	173*
Plural compartment	109	53*
Provision, ventilation of	98	51
Ventilation of vaults	109	1V
Wall and panel structures	109	58*
Safety Devices (See Casing; Guards)		
Air bag passenger restraints	280	728*
Ammunition arming	102	221*
Automobile (See motor vehicle, safety promoting means)		
Bank counter partition	109	10*
Bed	5	424*
Belt	182	3*
Aircraft	244	122R
Land vehicle	280	801*
Inflatable	280	733
Motor vehicle related	180	268*
Passive	280	802*
Seat	297	464*
Blasting cartridges	102	325*
Boiler sight glass with valves	73	333
Bolt and rivet making	10	23
Closure obstruction responsive	49	26*
Cooking apparatus	99	337*
Cutting art	83	DIG. 1
Digest art	83	DIG. 1
Electric (See protection, electric)	361	1*
Alarms	340	635*
Arc lamp	314	10*
Distribution cutout	191	8
Electric lamp	315	119*
Electric switches for	200	
Elevator	187	100*
Lantern	362	157*

	Class	Subclass
Lightning arrester	361	117*
Lightning protection	174	2*
Motor regulating temperature	236	89
Shock protective	174	5R
Systems	361	1*
Telegraph system	178	69G
Telephone interface	379	412*
Explosion preventing	241	31
Firearm lock	42	70.5
Revolver	42	66
Fluid handling		
Acetylene generator escape	48	56
Boiler devices	122	504*
Boiler feed heater valve	122	437
Burner controls	431	14
Burner controls	431	18*
Gas cookstove	126	42
Gas distribution	48	192
Gas holder high pressure escape	48	175
Heater cutout	236	21R
In fluid handling line	137	455*
Internal combustion charge forming	123	529
Stove water back	126	35
Valve	137	455*
Furnace, solid fuel	110	193
Fuses electric	337	142*
Making	29	623
Garments		
Arm guard	D29	20
Eye and face protectors	D29	17*
Hand protectors	D29	20*
Headware	D29	12*
Leg guard	D29	10
Glass manufacturing machine	65	159
Hat	D29	12*
Lantern for miners	362	164*
Lowering devices aeronautic	244	138R*
Machine power stop	192	129R*
Drilling or screw-threading machine	408	710
Press combined	100	53
Medicinal composition with	424	2*
Mine safety systems	299	12
Motor regulating temperature	236	89
Nuclear	376	207
Control rod, reflector, shield	376	221
Monitoring	376	245
Neutron absorbers	376	327
Safety fuse	376	336
Shielding	376	287
Paper		
Design	D19	5
Fraud preventing coating	427	7
Printed matter fraud preventing	283	74*
Pins and fastenings		
Carding	227	25
Chatelaine hooks	24	4
Guards finger ring	63	15.8
Guards for pins	24	706.2*
Guards for watch	63	24*
Pins, design	D11	200*
Purse	150	102
Safety pin making	163	7
Pipe joint release	285	1*
Pressure gauges	73	738*
Razor with sharpener	30	39
Receptacle		
Apparel pocket strap	2	254
Barrel bung automatic valve	217	101
Fare box	232	15*
Letter box	232	31*
Reflective triangle for highway use	40	903*
Robot	901	49*
Roll bars passenger restraints	280	756
Saddle stirrups	54	49
Screen for receptacle filling	141	97
Seat belt passenger restraints	280	801*
Separator, imperforate bowl centrifugal	494	12
Shields	266	903*
Steam boiler	122	504*
Theft	109	
Trigger for mechanical gun	124	40
Valve on muffler	181	237
Valves		
High temperature	137	75*
Line responsive	137	457
Low temperature drain	137	62
Pressure relief	137	455*
Steam boiler combined	122	504*
Vehicle and railroad		
Brake beam	188	210
Motor vehicle	180	271*
Moving train lander	104	19
Railway block systems	246	15*
Railway car bridges	105	458*
Railway car truck support	105	217
Railway sidings	246	374
Ship coupler tension release	114	217
Stock car safeguards	119	13
Wagon neck yoke coupling	278	124
Wagon thill coupling	278	54
Wagon tongue neck yoke retainers	278	51
Watch and clock wheels	368	141*
Safety Pin	D11	206
Safranine	544	348
Safrole	549	434
Sag Preventers	254	388
Gate or door	49	396
Saggers	432	258*
Sailboat Design	D12	303*
Sails and Sailing Devices		
Gate mounted wind balance	49	135
Land vehicles	280	213
Railway vehicles	104	24
Ships and boats	114	102*
Design	D12	303*
Salad Dressing	426	605
Sales Books	282	
Salicin	536	4.1*
Salicylate	436	129*
Salicylic Acid	562	477
Acyclic acyl esters of	560	143
Aroyl esters of	560	8*
Azo compound ctg.	534	660*
Salinomycin, in Drug	514	460
Saliva Ejectors	433	91
Salol	560	71
Salt (See Type of Compound)		
Condiments and flavors	426	650
Crusher	241	
Crystallizing	23	295R
Evaporating	159	
Fused bath	266	120
Inorganic	23	
Ion exchange regeneration	210	190*
Process	210	670*
Licks for cattle and game	119	51.3
Design	D 1	100
Mining		
Extraction and crystallization	23	298
Thermal or solvent	299	5
Organic	260	
Shaker		
Comminutor combined	241	168*
Design, mill or	D 7	591*
Dredge top dispenser	222	480
Hand manipulable type dispenser	222	142.1*
Sifter type dispenser	222	565
Salting		
Apparatus	99	494
Bread, pastry and confections	99	362*
Nuts	426	632*
Salvage (See Recovery; Reclaiming)		
Bell	405	185*
Scrap metal	29	403.1*
Submarine vessels	114	44*
Combined with device	114	336
Salvarsan	556	66
Salvos	424	
Sample Changers		
Analyzer supply	73	864.81*
Chemical analysis	422	63*
Electron microscope	250	440.1
Nuclear energy detector	250	328*
Sample Devices		
Baggage or case	190	16*
Card pasting machines	156	559*
Display package	206	44R*
Trays	206	557*
Sampler (See Pipette, Swab)	73	863*
Agitator combined	366	140
Body contacting	128	
Capture device	73	864*
Chemical reaction, apparatus	422	
Chemical reaction, method	23	
Closed evaporating chamber	159	30
Container combined	141	22*
Depth sounding	33	717*
Diagnostic, liquid	128	760*
Diagnostic, non-liquid	128	749*
Dispensing	222	
Dispenser combined	141	110*
Drop former	222	420
Movable trap chamber	222	356*
Distance sounding combined	33	713
Earth boring combined	175	308*
Core	175	244*
Electrical signal	307	231*
Evaporating chamber combined	159	30
Gas separator combined	55	270
Gravitational separator combined	210	513*
Mass spectrometer combined	250	288
Milking machine combined	119	14.1*
Optical sample holder	356	244*
Sample taking, cutting	83	919*
Textile treatment combined	68	185*
Thermometer combined	374	157
Well		
Packer and valve type	166	142*
Processes	166	264
Receptacle type	166	162*
Sampling, Nuclear Reactor Condition	376	245
Sand		
Blast abrading	51	410*
Box playground	272	1R
Design	D21	252
Excluding bands for wheels	301	123
Foundry mixing	366	1*
Lime brickmaking	106	796*
Liquid filter	210	263*
Rehabilitation process	210	791*
Mold	164	349*
Molding		
Metal founding	164	
Plastic block etc apparatus	118	
Paper	51	394*
Abrasive composition for	51	293*
Applying devices	51	275
Making and compositions	51	293*
Reel or roll		
Winding and reeling	242	117
Woven fabric take up	139	307*
Scattering devices	291	
Screener or riddle	209	233*
Traps and separators		
Paper making	210	
Track sanders	291	11.1*
Washing	209	155*
Sandal	36	11.5
Making	12	142S
Overshoes	36	7.5*
Sanders and Sand Feed or Blast		
Boiler cleaner	122	395
Brick and mold	118	
Coating appliers	118	308*
With electric orienting	118	640
Conveyers fluid current	406	
Design	D 8	62
Laminated fabric sanding	156	
Sandblast abrading apparatus	51	410*
Method	51	319*
Scattering unloaders	239	650*
Track	291	
Sandglass Design	D10	44
Sanding		
Belts	51	357*
Blocks	51	204
Discs	51	358*
Drums	51	358*
Sandwich Making		
Apparatus	99	450.1
Process	426	502*
Sanitary		
Equipment & handling	D23	
Napkins	604	358*
Belt	D 2	625
Design	D24	49
Shield	604	393*
Santalol (See Alicyclic Hydrocarbon)	585	350*
Santonin	549	299
Sap Buckets	47	50*
Turpentine and rubber	47	11
Sapogenins	540	17*
Saponifying		
Cellulose ether or ester fibers	8	130
Dyeing textiles combined	8	
Fats or oils	260	417*
Mixtures	252	369*
Natural resins	530	200*
Rosin	530	224*

	Class	Subclass
Saponin	536	4.1+
Saran T M	526	343
Sarcophagi Molds	425	
Sarcosine	562	575
Sash		
Accessories		
Balances	16	193+
Burglar alarms and fasteners	116	16+
Cord fasteners	16	202+
Cord guides	16	210+
Electric switches	200	61.62+
Weights	16	216+
Garment supporter	2	300
Making	144	5+
Panel	52	782+
Sectioned	52	455+
Window		
Locks for	70	89+
Ventilating	98	97
Satchel (See Pouch)		
Satellite (See Space Ship)	244	158R+
Aplications, photoelectric cell	136	292+
Saturable Core Reactor		
External or operator controlled	323	329
Input responsive	323	302
Linear amplifier systems	330	8
Non-linear reactor systems	307	401
Output responsive	323	249
Self regulating	323	310
Transformer systems	323	250
Voltage magnitude control	323	253
Saturating		
Fireproofing compositions	252	601
Preserving	422	
Transformer	336	155
External or operator controlled	323	329
Input responsive	323	302
Output responsive	323	249
Regulating system	323	
Self regulating	323	310
Sauces	426	589+
Sauerkraut (See Kraut)		
Sauna		
Bath	D24	37
Heater	D23	315
Sausage	426	129
Casing	426	140+
Inedible	428	34.1+
Shirred casing	206	802*
Wall structure	138	
Cookers		
Electrode type	99	358
Opposed heated surface type	99	380+
Spit or impaling type	99	419+
Support combined	99	441
Grinders	241	
Linkers	17	34
Stuffers combined	17	33
Stuffers	17	35+
Savings Boxes	232	4R+
Paper type	229	8.5
Toy	446	8+
With register	235	100
Saw	30	166.3+
Band	30	380
Band saw	83	788+
Barrel head making	147	38
Bone	606	82
Trephine	606	172+
Bow	30	507+
Butchering	17	23
Button blank sawing	79	15+
Chain	30	381+
Chain saw	83	788+
Cleaners and oilers	83	169
Dado	144	222
Drag saw	83	771+
Frame	83	859
Hand	30	166.3+
Fret	30	513
Gauge	33	202
Gin	19	55R+
Gummers	76	25.1+
Wheels	76	45
Handsaws	30	166.3
Combined with other cutter	30	144
Combined with other tools	7	148+
Hole saw	408	204
Making	76	25.1+
Methods	76	112
Metal sawing machines	83	
Saws	83	835+
Rotary	30	388+
Scroll	83	783+
Hand	30	513+
Sets	76	58+
Stave jointing	147	28+
Stone sawing	125	12
Surgical	606	176
Table saw	83	477+
Tables	269	289R
Gauges	83	522.16+
Modified for blade	269	83+
Teeth	83	835+
Fastenings	83	840+
Vegetable and meat combined with cutter	83	
Wood sawing devices	83	
Design hand saw	D 8	95+
Design, power saws	D 8	64+
Design, sawing machinery	D15	133
Guards	83	440.2
Guides	83	821+
Wood slivering gang	144	189
Woodworking rotary cutter	144	222+
Sawbucks and Sawhorses		
Buck, ie holding or clamping	269	296+
Horse, ie scaffold or plank supporting	182	181+
Sawdust		
Briquette	44	590+
Burners (See furnaces solid fuel burning sawdust refuse and wet fuel)		
Fuel	44	506
Fur cleaning by	69	23+
Making processes	241	28
Sawhorse	D25	67
Sawing (See Saw)		
Button blanks	79	15+
Dog	269	
Feed	83	401+
Metal	83	
Sawmill carriage wheel guards	37	194
Sawmill dogs with carriage	83	721
Stone	125	12+
Wood	83	
Saw table gauges	83	522.16+
Sawtooth Oscillator		
Driven	328	193+
Free running	331	
Saxophones	84	385R
Scabbards (See Sheath)	224	232+
Design	D 3	102
Ice skate	280	825
Sword	224	232+
Design	D 3	102
Scaffolds	182	179
Bracket supports	248	235+
Combined	182	129
Convertible	182	20
Ladder	182	27
Design	D25	62+
Design, element or coupling	D25	68+
Elevating means	182	141+
Foldable	182	152+
Platform	182	222+
Shaft supported	182	128
External	182	187
Scalder		
Cleaning	134	
Fowl	17	11.2
Hog	17	13+
Peeler or parer combined	99	483
Scale (See Weighers)		
Armored tire	152	206
Bathroom	D10	87
Lamellate composition	106	415+
Metal scaling	29	DIG. 34
Music		
Automatic note selector	84	152+
Enharmonic	84	451
Keyboard touch plate	84	428
Optical element combined	350	110+
Optical pointers	350	110+
Pans	177	262+
Price	177	25.11+
Register	235	124
Remover and preventer		
Composition	252	80+
Dentistry	433	143
Electrolytic apparatus	204	196+
Electrolytic process	204	147+
Fish	17	64
Hammer	29	81.15
Magnetic apparatus	422	186.2+
Metalworking	29	81.1+
Water softener	252	175+
Rule or	D10	71+
Ruler	33	494
Square	33	474
Typewriter	400	705+
Line spacing	400	548+
Weighing instrument	177	
Design	D10	87
Scalpels	606	167+
Scandium	156	DIG. 114
Scanning		
Antenna	343	757+
Facsimile	358	474+
Optical	350	
Electrophotographic copier	355	233+
Periodically moving optical element	350	6.1+
Periscope	350	540+
Photoelectric	250	200+
Television	358	199+
Telescope	350	537+
Scarecrow	40	
Noise maker		
Bells	116	148+
Horns	116	137R+
Scarf		
Apparel	2	207
Design fur	D 2	601
Design haberdashery item	D 2	500+
Design shaped	D 2	500+
Design shaped ascot	D 2	605+
Design with evening dress	D 2	53+
Hanger for fur	223	97
Joint	238	230+
Slide holder	D 2	202+
Scarfing (See Skiving)		
Apparatus for metal	266	51+
Blowpipes	239	398+
Processes for metal	148	9R
Scarifier		
Earthworking	172	
With scraper	37	108R+
Stamp	81	9.21
Surgical		
Lancet	606	181+
Other instruments	606	186
Receptor combined	604	22
Scattering (See Sprayer; Sprinkling)		
Drying apparatus centrifugal	34	59
From aircraft	244	136
Insect powder dusters	239	
Non-fluid material scattering	239	650+
Planting broadcasting	111	8+
Pneumatic conveyor discharge	406	157+
Road treating material	404	101+
Track sanders	291	
Scavenger & Scavenging		
Anesthesia gas scavenging system	128	910*
Oxygen scavinging	252	186.1+
School		
Bus signal lights	340	433
Desks and seats	297	135+
Design	D 6	335+
Design, with drawer	D 6	335+
Schreinerized Fabrics	26	69R
Science Teaching	434	276+
Scillin	536	4.1+
Scissors (See Nipper; Shearing)	30	194+
Buttonhole	30	120
Can opening	30	428
Design	D 8	57
Knife combined	30	146
Manicuring	30	29
Compound tool	132	75.4+
Material holder combined	30	131+
Nipper combined	30	145
Plier combined	7	135+
Sharpening		
Abrading design	D 8	93
Apparatus	76	82.2
Combined with can opener	D 8	35
Power sharpener	D 8	63
Process	51	285
Scleroscope	73	79
Scoop	D 7	691
Bag filling	141	108+
Ditchers	37	103

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	Class	Subclass
Dredgers	37	71
Excavating	37	118R+
Ice cream	425	118
Ice cream	425	221
Ice cream	425	276+
Design	D 7	681
Kitchen	294	55
Pump	417	232
Railway graders	37	106+
Rotary dryer	34	188
Shovel	294	55
Sifter support	209	418
Snow excavator	37	264+
Vehicle fender	293	42+
Scooter Vehicle	280	87.1+
Toy	D21	81
Scopolamine	546	91
In drug	514	291
Score Boards		
Bowling	273	37
Changeable	116	222+
Electric sign, matrix	340	780
Electric sign, monogram	340	760+
Computer controlled, monitored	364	411
Electric annunciator	340	323R
Electrical registering type	377	5
For games	116	222
Electrical	340	323R+
Games	235	90
Image projection	353	45
Printed matter	283	48.1+
Target combined electrical	273	371+
Target combined mechanical	273	378+
Scorers for Games	D10	46.1
Scoring (See Notes to)	33	18.1+
Implements	30	164.9
Indenting stylus	81	9.2
Machines	83	861+
Metal working	29	DIG. 33
Of paper	493	396
Paper bag making	493	228+
Paper box making	493	59+
Plane	144	186+
Registers	235	
Score line, support	248	909*
Static mold for making scored item	249	52
Wood slicing combined	144	42
Scotch Block	104	258
Scotch Yoke	74	50
Scourer and Scouring		
Abrading	51	16+
Polishing combined	51	4
Tools	51	391+
Tumbling	51	163.1+
Concentration of natural current	405	73
Dredger	37	75+
Grain	99	600+
Processes	426	483+
Pad, household use	D32	40+
Textile cleaning	8	139+
Scows (See Barges)	114	26+
Scram Rod (See Nuclear)	376	207
Component structure	376	327
Element	376	219
Scrap (See Trash)		
Binder device releasably engaging aperture or notch of sheet	402	
Bindings	281	22
Metal		
Box	428	576
Cutting	83	
Electrolytic stripping apparatus	204	193+
Electrolytic stripping processes	204	146
Pile or fagot	428	588+
Preheating or melting	266	901*
Reclaiming by		
Hydrometallurgy	75	715+
Metallurgy	75	401+
Scraper (See Rake; Removers)		
Boiler cleaning	122	387
Bone	606	84+
Bristle brush combined	D 4	116+
Bulldozer	172	811+
Carbon block making	422	150+
Caster wheel attachment	16	41
Cleaning device	15	236.1+
Brush combined	15	111+
Brush paint can attachment	220	90
Design, food	D32	40+
Design, food preparation	D 7	688+
Inside pipe or tube	15	104.16+
Machine	15	93.1+
Vacuum cleaner nozzle combined	15	401
Windshield wiper combined	15	256.5+
Conveying from heat Exchange surface	165	95
Conveyor belt unloader	198	637
Cooking or baking molds combined	249	77
Cutting tools	30	169+
With material holder or disposal	30	136
Drying rack	34	185
Drying rake attached	56	400.5+
Earthworking	172	
Railway snow excavator	37	214+
Transverse endless road grader	37	109
Eraser	30	169+
Burnisher combined	7	124+
Filter cleaning	210	407+
Furnace ashpan	110	170
Grinding or milling member cleaner	241	166+
Heat exchange cylinder	165	97+
Hog scraper	17	16+
Scalder combined	17	13+
Household cleaning tool	D32	35+
Intaglio printing wiper	101	169
Rotary with transfer	101	154
Wiper for rotary	101	157
Land vehicle wheel attached	280	855+
Leather manufactures	69	
Metallic receptacle combined	220	90
Pipe bowl	131	246
Plow or cultivator	172	610
Porous block filter cleaner	210	116+
Sealed bearing	384	137
Shoe	15	237+
Design, boot or	D32	47
Scraper for vehicle	D12	203
Snowplow	37	266+
Stamp scarifier	81	9.21
Surgical	606	159
Design	D24	28
Wick trimmer	431	120
Woodworking	144	115
Scratcher		
Ash receiver combined	131	234
Back	128	62R
Cigar cutter combined	131	249
Cigar or cigarette combined	131	351
Match	44	643
Match combined	44	510
Safe combined	206	137+
Smoking device combined	131	185
Well	166	170+
Screed		
Plastering	52	364+
Corner	52	255+
Road or pavement	404	118+
Screen (See Shield; Sifter)		
Bed	5	512
Combined	5	163
Cathode ray tube	313	461+
Color lantern	362	166+
Decorative panels	D 6	332
Electrophotographic electrode	355	262
Electrophotographic photoreceptor	355	211
Elevator door	187	55
Fireplace	126	544
Fluid current	210	348+
Dredgers with	37	57
Faucet combined	210	449
Flume	210	154+
Gas filtration	55	
Restrictor with	138	41
Starch making	127	25
Track sander	291	48
Track sander fluid delivery	291	13
Fluorescent	250	483.1
Furnace door fluid screen	110	179
Furniture	160	135
Gas filtering	55	
Glare auto	296	97.1+
Grid	313	297+
Structure	313	348+
Halftone	350	322+
Chemically defined	430	6+
Insect trap with	43	119
Luminescent		
Metal treatment	148	149
Nuclear reactions	376	153
Nuclear reactions	376	156
Nuclear reactions	376	463
Process of making	430	23+
Optical filter	350	311+
Color photography	354	100+
Infra-red	350	1.1+
Lenticular	354	101
Photographic chemically defined	430	4
Ultra-violet	350	1.1+
Phosphorescent	250	483.1
Photographic	D16	241
Photographic printing	350	322+
Chemically defined	430	6+
Plant	47	26+
Frost preventing	47	2
Tree covers	47	20
Potato digger	171	71+
Potato digger	171	111+
Plow combined	171	71+
Plow combined	171	111+
Projection, ie movie	350	117+
Projector light	362	257+
Racks with	211	180
Safety for filling devices	141	97
Seat combined	297	184
Sifters	209	233
Special ray, eg X-ray	250	483.1
Stuff working		
Forming fiber articles	19	148
Forming fiber webs	19	304+
Paper pulp	210	348+
Trock sander	291	48
Typewriter keyboard	400	714+
Urinal	4	292+
Warship armor	114	14
Well screen	166	227+
Earth boring means combined	175	314
Making	29	163.7+
Window	160	
Design	D25	53
Wire fabric	245	
Making	140	38+
X ray		
Bucky grid	378	154
Film	378	185
Fluorescent or phosphorescent	250	483.1
Tube with secondary ray	378	140
Screw (See Threaded)	411	
Adjusted or actuated (See --, valve)		
Chair pedestal design	D 6	364+
Dump door railway car	105	307
Hoop driver	147	11
Mechanical pencil lead feed	401	68+
Puller	29	256+
Punch	83	631
Railway track pedestal	238	120
Reciprocating bender	72	454
Stand	248	405+
Stool	108	138
Switch	200	507
Tube and bar drawing	72	287
Valve applier	29	217+
Wrench	81	155+
Apparel fastener	D11	200+
Capping nails & screws	10	156+
Clamp grip and vise		
Belt fastener clamp	24	37
Boot antislip anchor	36	65
Cable grippers railway	104	210
Cable grippers railway	104	223
Clamps	269	86+
Fence rail cross connections	256	69
Fence wire cross connections	256	55
Map holder	15	153
Rope holders nut clamp	24	135R+
Skate toe or heel	280	11.32
Vises	269	
Closure		
Breech ordnance	89	19+
Dispenser	222	549+
Jar or bottle cap	215	329+
Jar or bottle stopper	215	356+
Metallic receptacle	220	288
Pipe and tubular conduits	138	89+
Watchcase	368	310
Wooden barrel bungs	217	107
Closure remover	81	3.45
Connectors electric	439	
Fixture	439	641+
Outlet box	439	
Switch with	200	51.14+
Conveyor & feeder (See conveyor, screw; feeder)	209	913*
Acetylene generator carbide feed	48	54

	Class	Subclass
Drill feed	408	129*
Elevator drive	187	24*
Furnace type	414	197
Hollow heat exchanging	165	87
Lathe feed	82	141
Locomotive tender feed	105	234
Mill feed	241	246*
Sand feed track sander	291	33
Sausage stuffer	17	40
Screw or cam conveyor	29	DIG. 1
Static receptacle	414	
Stoker feed	110	110
Typewriter feed	400	328*
Vegetable and meat cutting and comminuting feeds	241	
Wood slicer feed	144	179
Design	D 8	387
Driver (See screwdriver)	81	436*
Constructed from specific material	81	900*
Electrical connection formine	7	108
With screw feed	81	57.37
Earth boring bit	175	327*
Excavators	37	81*
Extractor	81	436*
Fastenings		
Bottle or jar closure clamp	215	281*
Bottle or jar closure clamp	215	283
Bottle or jar closure pivoted fastener	215	243
Fluorescent or phosphorescent	250	462.1
Horseshoe	168	23
Latch bolt	292	251
Latch bolt operator	292	
Lock bolt	70	140
Machine i. e. bolt	411	378*
Rail joint chair	238	202
Rail joint slide fastener	238	332
Rail joint tie plate	238	303
Separable button	24	105
Setscrew	403	362
Setscrew knob	292	350*
Spikes railway	236	372*
Tool handle	403	
Watchcase bow pendant	368	304
Wood	411	378*
Gearing	74	424.7
Clutch operator	192	94
Intermittent mechanical movements	74	111*
Mechanical movements	74	20*
Nut with	74	424.8 R
Power limit stop	192	141
Ship steering	114	155*
Steering control	74	499
Jack lifter stretcher & tightener	254	98*
Barrel hoop	217	95
Combined	254	7R
Electrostatic	254	92
Nail extractor	254	7R
Printers quoins	254	41
Sail	114	109*
Stretcher	254	231*
Carpet	254	200*
Traversing jacks	254	85
Making	10	2*
Abroding	51	288
Capping	10	156*
Lathe cutting	82	110*
Machine	29	33R*
Mold	164	216
Molding glass	65	309*
Rolling	72	88*
Rolling process	72	365.2*
Threading	408	
Wire and inserting	29	564.6
Wood	10	2*
Pipe and rod joints and connectors		
Chucks	279	
Electrical connectors	439	191*
Rod joints	403	343
Sockets	279	9R*
Ties railway screw rods	238	53
Press		
Die cutting	83	631
Dispenser follower	222	390
Forging	72	454
Propeller		
Air	416	176
Aircraft with	244	65*
Ship	440	49*
Ship manual drive	440	21
Pump	415	71*
Agitating	366	266
Setscrew guard	74	617
Setscrew guard knob	292	351
Thread gauge	33	199R
Threading	10	87*
Valve	251	216
Bottle	215	314
Dispenser	222	549*
Screwdriver	81	436*
Combined with diverse tools	7	165*
Combined with diverse wrench	81	437
Constructed from specific material	81	900*
Design	D 8	82
Floor jack	254	13
Eye screw, adapted for	81	901*
Machine	81	54
Scriber (See Scoring)	33	18.1*
Barrel head making	147	37
Hand device	147	41
Scroll		
Actuated chuck	279	114*
Display control	340	724*
Saw	83	783*
Hand	30	513*
Handle	30	525
Type comminutor	241	276
Scrubbing and Scrubber		
Bathing apparatus combined	4	606
Brushes	15	159R*
Holders	15	146
Material supply combined	401	268*
Design, equipment	D32	35*
Floor and wall machines	15	50.1*
Gas (See gas, liquid contact with)	261	
Implement, general cleaning	15	104R*
Implements for textile washing	68	220
Kneeling stools	182	230
With tool holder	182	129
Machines for cleaning	15	3
Mops	15	200*
Strand material	15	226
Pails	15	264
Textile washing machines	68	
Washing or cleaning methods	134	6*
Washtub surface	68	233
Sculpting		
Articles for	D19	35
Chisel	D 8	47
Hammer	D 8	75*
Knife or spatula	D 8	98*
Sculpture (See Product)		
Design	D11	131*
Fauna	428	16
Layer varying thickness	428	156*
Manipulable	446	268*
Milling machine	409	79*
Photographic process	430	323*
Teaching	434	82*
Scupper	114	182
Scutching	19	5R*
Beaters	19	85*
Scuttle		
Operators	49	324*
Scythe	30	309
Design	D 8	12
Handle fastening	403	
Nib joints	403	
Sea Calming	114	232*
Seafood	426	643*
Preservation	426	321*
Antiseptic and pickling	426	654
Canning	426	392*
Dehydration	426	471*
Refrigeration	426	524
Weed compositions	536	3
Seal, Sealer, & Sealing		
Apparatus for making plastic seals	425	
Molding with reinforcements	425	500*
Band or wire applier	140	150*
Battery	429	172*
Bearing		
Ball combined	384	477*
Ball combined with lubrication	384	462*
Plain	384	130*
Books having	281	18
Bottle cap	425	809*
Caulking ships	114	86
Caulking tools	81	8.1
Metalworking	72	463
Cigar or cigarette wrapper	131	67*
Closure	49	475*
Actuated	49	303*
Operator	49	316*
Conduit cable or conductor ends	174	77R
Container opening	206	601*
Cylindrical cell	429	171*
Electron tube sealing	53	DIG. 3
Envelope sealing & stamping	156	442
Fuel cell	429	35*
Glass		
Compositions	501	15
Electronic tube having	174	50.5*
Gas or vapor lamp having	313	623*
Incandescent lamp having	174	50.5*
Incandescent lamp having	220	2.1 R*
Incandescent lamp having	174	17.5*
Lamp or discharge device making		
Apparatus	65	152*
Processes	65	36*
Hermatic (See air lock)		
Drying or gas contact		
Chamber having	34	242
Processes using	34	15
Inflatable toys having	446	222
Preserving food by	426	392*
Still	202	269
Valve actuator	251	335.1*
High frequency electric sealing	53	DIG. 2
Inflatable closure	49	477
Light		
Plate holders having	354	277
Liquid (See trap)		
Barrel bung	217	105
Bottle and jar closure	215	234
Dispenser type	222	
Flow meter having	73	234*
Gas making cupola having	48	69
Gas separator combined	55	355
Hardenable liquid jar closure	215	233
Liquid seal only	429	78
Machine, ie bolt	285	10*
Metallic receptacle closure	220	216*
Packed rod joint	277	135
Plastic seal jar closure	215	233
Rotary expansible chamber device	418	104*
Sewerage having	137	247.11*
Valve	137	251.1*
Valve interface	137	246*
Liquid barrier	277	135
Centrifugal	277	13*
Lock, closure fastener	292	307R*
Barrel bung	217	114
Bottle cap with separate fastener	215	273*
Bottle or jar closure	215	200*
Closure fastener bolt	292	327
Closure fasteners with	292	
Electric connector	439	271*
Envelope	229	80*
Envelope fastener	229	79
Fountain pen cap combined	401	245
Lock combined	70	440
Metallic closure	220	200*
Padlock combined	70	50
Safe door jamb	109	64*
Weather strips	49	475*
Zipper	24	418*
Magnetic closure	49	478
Making sheet metal container seams or solder seals	413	
Moistener combined	156	441.5*
Movable shafts		
Packing material	277	
Stuffing boxes	277	
Notary	101	3.1*
Nuclear fuel components	376	451
Sealing wax applier	401	1*
Separator, imperforate bowl centrifugal	494	38*
Stamp or	D19	12
Tamper indicating		
Fluid handling	137	384
Pipe joint	285	80
Terminal	429	181*
Wax		
Appliers	401	1*
Compositions	106	218*
Zipper surface sealed	24	389
Sealed Beam Lights	313	113*
Seam		
Adherent making		
Apparatus	156	

	Class	Subclass
Process, butt ending	156	304.1
Bag bottom seamless	383	122
Binding devices for sewing machine	112	137+
Calking on ships	114	86
Cloth rubber and leather	2	275+
Pressing	69	7
Sewed seams	112	262.1+
Sewing	112	
Shoe upper	36	57
Hosiery	66	179
Simulated	66	181
Metal		
Can side making	413	69+
Container spout	222	574
Fusion-bonding apparatus	228	
Opening device	220	260+
Receptacle	220	677+
Receptacle and structure	220	600+
Sheet edge interfolding	29	243.5+
Sheet methods	413	1+
Tube of sheet material	72	48+
Wire fabric having	245	10
Paperbox box	229	198.2+
Pipe having longitudinal	138	156+
Distinct layers	138	151+
Flexible	138	128
Pipe having spiral	138	154
Distinct layers	138	150
Flexible	138	129+
Receptacle paper crimped end	229	5.6
Searchlight	362	35
Boat type	362	61+
Bulbs	313	
Searing		
Leather	69	7.5
Seasonings	426	650+
Seat	297	
Actuated		
Abrading work holder	51	226
Brake	188	109
Dry closet	4	473
Flush valve	4	250
Seat and cover operator	4	251
Seat subclosure	4	238
Trackmans car	105	94
Water closet	4	408+
Agricultural implement	172	431+
Aircraft	244	122R
Safety lowering devices	244	141
Backless	D 6	349+
Backpack convertible to	224	155
Bath and closet	4	237+
Bathtub	4	578+
Chemical holder in seat	4	229
Covers	4	242+
Covers combined	4	234+
Disinfecting	4	233
Dry closet subclosure	4	485+
Seat and cover operator	4	251
Ventilated	4	217
Bed	5	432+
Belt passenger restraints	280	801+
Safety buckle	D11	200+
Boat	114	363
Cabinet with	312	235.2+
Convertible to railway berth	105	322
Design	D 6	334+
Grinders, milling	409	64+
Guards and control for amusement railways etc	104	241
Harvester combined	56	323
Heated	4	DIG. 6
Land vehicle	296	63+
Rear seat windshields	296	85
Light combined	362	131
Vehicle	362	75
Light thermal and electrical application	128	376+
Locks	70	261
Mechanical parts		
Bottle or jar closure cap	215	316+
Pivoted seat motor	185	15.5
Rail seats	238	264+
Railway rail joint base plate	238	215
Tool handle fastening		
Adjustable	403	83+
Tool handle fastening rigid	403	
Valve (See valve and valved devices)		
Occupancy indicator	116	200+
Electric	340	667
Occupant carried	297	4
Occupant guards or restraints	297	464+
Passenger recording by depression	346	40
Railway passenger car		
Convertible open and closed	105	336
Placement	105	345+
Seat back side guard control	105	441
Rubber	4	DIG. 8
Saddle tree and seat connection	54	42
Sofa bed	5	12.1+
Toilet	4	237+
Trackmans car	105	94
Vacant seat signalling system	340	667+
Vehicle		
Auxiliary	297	232+
Velocipede	297	195+
With body modification	296	63+
Walk over	297	94+
Seat Belt Restraints	297	464+
Safety buckle	D11	200+
Seaweed, Artificial	405	24
Sebacic Acid	562	590
Second Detector Radio	329	
Secondary		
Battery	429	149+
Charging & discharging systems	320	2+
Emitters	313	103R+
Amplifying system	330	42
Cathode ray tube	313	399
Cathode ray tube	313	387
Cathode ray tube system	315	11
Cathode ray tube system	315	12.1
Prevention	313	106+
9		
9, 10-seco-Cyclopentanohydrophenanthrenes	552	653
Secret		
Communication		
Electronic, funds transfer	380	24
Facsimile	380	18
Radio	380	31+
Radio, pulse or digital	380	37
Telegraph	380	9+
Telephone	380	41
Television	380	10+
Access control	358	349
Compartment type cabinet	312	204
Cryptography photo copying	355	40+
Including fiber optics	355	1
Sectional		
Boilers	122	209.1
Radiators	165	130
Sectional Unit Cabinet (See Knockdown)	312	107+
Cooking apparatus	99	449
Horizontally attached receptacle sets	220	23.4
Securing Means (See Connection; Lock; Retainers)		
Closure	292	
Bendable	292	253
Locks	70	
Portable	292	289+
Grille	52	507
Rims land vehicles	152	
Demountable	301	11R+
Sheathing	52	506+
Shingle type	52	443+
Sheet members		
Billiard cloth	273	7
Fabric (See notes to)	160	382+
Sheet members on drums	346	138
Spokes	157	1.55
Tires land vehicles	152	
Tires railway	295	15+
Vehicle parts		
Bodies	296	35.1+
Bodies on & off freight containing	410	77
Mud guards	280	154
Top and side boards	296	36
Wheels railway	295	43+
Securities, Commodities		
Computer controlled, monitored	364	408
Security Instruments	D10	104+
Metal detector for airports	340	568+
Metal detector for library books	340	572
Sediment		
Feed heater valve	122	429
Filter combined	210	299+
Liquid purification or separation		
Automatic discharge	210	112+
Gravitational apparatus	210	513+
Gravitational process	210	800+
Precipitation process	210	702+
Seed		
Coated or impregnated	47	57.6
Comminuting	241	6+
Cooker	422	307+
Disinfecting compositions	424	
Extraction, fatty oil from seed	260	412.2
Germinator	47	61
Apparatus fermentative	435	287
Fermentation combined	435	
Pellet planters	111	914*
Proteins	530	370
Coating or plastic compositions containing	106	154.1
Removing or separating		
Decorticating combined	19	6
Fruit apparatus	99	547
Fruits and vegetables processes	426	484+
Ginning	19	39+
Rod holders	156	DIG. 98
Seedling containers	47	77
Seedling transplanters	47	77+
Stripping or gathering	56	126+
Motorized	56	12.9+
Threshing type	460	123+
Tapes	47	56
Making, methods of	53	467+
Planting	111	199
Testers	47	14+
Untreated	800	250+
Seed Corn Stringers	139	19
Seed Pulling, Crystalization	156	617.1+
Seeding	111	
Crystal growing or forming	23	301
Sugar making or refining	127	60
Seesaw		
Amusement device	272	54+
Combined with roundabout	272	30
Design	D21	251
Amusement railway		
Car drive	104	80
Swinging car	104	81
Track	104	79
Figure toy	446	322
Sager Cane	374	106
Segment		
Closure fastener keeper	292	341
Harvester platform adjuster	56	215+
Nuclear fuel	376	429
Pinion	74	32
Rim gear	74	448
Ship steering mechanism	114	159
Segmenter	30	114
Corer combined	99	545+
Parer combined	99	543
Seine Needles	87	60
Seines	43	14
Seismology		
Computer controlled, monitored	364	421
Seismic ware prospecting (See prospecting)		
Computer combined apparatus	367	60
Earth boring combined	175	1
Instruments	33	1HH
Seismographs or seismometers	181	
Electro-acoustic	367	14+
Mechanical	73	649+
Recording	346	7
Submarine signaling	367	15+
Vibration testing	73	649+
Selective Delivery		
Charging discrete loads to plural static structures	414	266
Conveyor power driven	198	348+
Material treatment		
Differentially comminuted mixed	241	14
Preceding sorting	209	4+
Pneumatic dispatch	406	1+
Railway	104	88
Signal and switch		
Electric annunciator	340	500+
Electric signal	340	825+
Railway automatic switch	246	323
Railway facing switch	246	424+
Railway train dispatching	246	5
Store service	186	20+
Telephone hook switch	379	424+
Telephony automatic switches	335	108+
Time controlled alarm	340	309.15+
Store service		

	Class	Subclass
Cable propulsion	186	15
Gravity system	186	3
Switches	186	20+
Suspended road vehicle unloading	414	377+
Selective Systems	340	825
Selector		
Dispensing magazine		
Stacked article ejector	221	92+
Electric annunciator station	340	286.11+
Electric organ tone partials	84	615+
Gear shifting	74	342+
Label pasting machine	156	
Lock or latch operator		
For cabinets	312	215
Lock tumbler type	70	305
Musical automatic instrument	84	115+
Musical instrument key	84	442
Phonograph cabinet disk record	312	15+
Pile fabric selected warp	139	404+
Planetary gearing	475	131+
Printing telegraph	178	33R+
Printing telegraph page	178	27
Punch	234	
Coded	234	94+
Railway dump car door	105	287
Tabulator column	400	284+
Telephone automatic testing	379	17
Textile warp preparing	28	202
Typewriter case	400	251+
Weaving separate weft	139	453
Zither chord	84	286+
Selenazine	544	1
Selenazole	548	100
Selenium	423	508
Cell		
Generator type	136	243
Resistive type	338	15+
Coating	437	
Electrolytic	204	
Compounds		
Binary	423	509
Organic	562	899
Ternary oxy	423	508
Misc. chemical manufacture	156	DIG. 72
Rectifier	357	
Making	29	25.1+
Process	437	
Self Aligning Bearings		
Ball	384	495+
Plain radial	384	192+
Plain thrust	384	193+
Railway car brasses	384	191.1
Shaft hangers	384	205
Self Baked Electrodes Furnace		
Arc	373	60+
Electrolytic apparatus	204	225+
Self Binding		
Cornstalk cutters	56	67+
Shockers	56	429
Shockers automatic feed	56	403+
Self Healing		
Stock material	428	912*
Tires	152	502+
Self Heating		
Article, by electricity	219	201+
Self Leveling		
Furniture	114	191+
Support	248	182
Tank or boiler	280	7
Vehicle body	280	840+
Self Loading Vehicle		
Excavator	37	4+
Road vehicle	414	467+
Self Service		
Plural related surfaces horizontally adjustable	108	102+
Stores	52	33
Tables, power driven surface	108	20+
Tables, terraced rotatable	108	94+
Self Starter for Engines		
Dynamoelectric	290	
Mechanical	123	179R
Self Winding		
Clocks	368	148
Spring & weight motors combined	185	7
Spring motor	185	40R+
Plural	185	11+
Toys spinning	446	249
Watches	368	207
Weight motor	185	33
Selsyn	318	692+
Communication systems	340	315
Telautograph	178	19+
Telemetering	340	870.34
Selvage		
Edge coating	427	285
Forming	139	430
Knitting		
Weft fabric	66	172R+
Weft machines	66	95+
Trimming	26	11+
On loom	139	302+
Weaving		
Warp traversing	139	54
Weft loop retainers	139	195
Semaphore		
Flags	116	173+
Hand set indicator	116	319
Spectacle	246	484
Structure	246	479+
Switch stand	246	409
Train dispatching	246	18
Semi-compound Steam Engines	91	8+
Semicarbazide	564	34
Semicarbazones	564	36
Semiconductive Alloys	420	903*
Semiconductor Device Amplifier (See Amplifier; Transistor)		
Laser induced diffusion of impurities into semiconductor substrates		
Device	357	7+
Method	437	16+
Making	29	25.1+
Coating by	437	
Etching by	156	625+
Mesa formation	156	649+
Photo etching by	430	311+
Process	437	
Semiconductor Device Making (see Semiconductor Junction Forming)		
Process of manufacture	437	
Applying corpuscular or electromagnetic energy	437	173
Coating and etching	437	228
Coating or material removal	437	225+
Dicing	437	226+
Directly applying electric current	437	170+
Electroless coating	437	230
Forming schottky contact	437	175+
Including shaping	437	249
Making or attaching electrode	437	180+
Securing completed device to mounting or housing	437	180+
Temperature modifying property of device	437	247+
Self-aligning device	437	984*
Semiconductor Junction Forming		
Diffusing dopant	437	142+
From melt	437	159
From solid source in contact with substrate	437	160+
From vapor phase	437	165+
Shallow	437	950*
Doping with material deposition	437	81+
Fusing dopant with substrate	437	134+
Heteroepitaxy	437	126+
Isolation	437	61+
Liquid and vapor phase epitaxy in sequence	437	117+
Plural device formation	437	51+
Shadow masking	437	80
Single layer multi-steps	437	108+
Sliding liquid phase epitaxy	437	119+
Tipping liquid phase epitaxy	437	125+
Using electric current	437	113
Using energy beam	437	16+
Coherent light beam	437	19
Ion beam	437	20+
Ionized molecules	437	18
Neutron, gamma ray, electron beam	437	17
Using seed liquid phase epitaxy	437	114+
Vacuum growing material using molecular beam	437	105+
Semitrailer	280	423.1+
Sensing (See Note 4 to Definition of)	73	
Nuclear reaction condition	376	245
Control combined	376	207
Sensitizing Photographic	430	495+
Coating processes	430	
Developing combined	430	401+
Sensitized elements	430	495+
Separation, Proteins	530	412+
Separator and Separating (See Purifiers; Screen; Sifter)	427	247
Battery	429	247+
Centrifugal		
Adhesion	209	60
Assembling apparatus	29	279
Assorting	209	642
Fermentation apparatus	435	287
Filters	210	360.1
Fluid suspension	209	199
Foraminous basket	68	23R
Imperforate bowl	494	
Auxiliary fluid supplied	494	23+
Bearing	494	83
Bowl	494	43+
Condition responsive	494	1+
Countercurrent flow	494	22
Cyclic or timed	494	11
Filtering	494	36
Heating or cooling	494	13+
Indicating, inspecting, etc.	494	10
Involving gases	494	900*
Involving mercury	494	902*
Involving oil	494	901*
Lubrication	494	15
Process	494	37
Recirculation	494	35
Safety	494	12
Seals and sealing	494	38+
Vibration damping	494	82
Oil dehydration	208	187
Sugar apparatus	127	19
Sugar manufacture	127	56
Vortical whirl gas	55	447
Coating or impregnating	427	
Cream	220	
Diamagnetic	209	212
Drying	34	
Exhaust vapors	34	79+
Egg	99	497
Electrolytic	204	295+
Fiber thread and fabric		
Loom replenishing	28	202
Pneumatic cleaning	19	205+
Sheet conveying and	271	4+
Sheet feeding and	271	10+
Shoe sole sewing	112	29
Textile fiber liberating	19	1+
Tobacco leaf disintegrating with	131	312
Gas	55	
Beer dispensing	137	170.1+
Boiler	122	488+
Furnace draft regulators	110	148
Heat exchange surface type condenser	165	111+
Liquefaction processes with	62	11+
Liquefiers and	62	36+
Liquid separation		
Combined	55	421
Process combined	55	85
Meters with liquid and	73	200
Pneumatic fiber cleaning	19	205
Separate fluid heated boiler with	122	34
Well combined	166	265+
Glass mold	65	357+
Grain scourers with	99	600+
Grain threshing	460	79+
Liquid	210	
Beverage infusing apparatus	99	279+
Beverage processes milk fat	426	491
Chemical extracting or leaching	422	261+
Concentrating evaporator liquid	159	31
Crystal producing and	159	45
Electrical apparatus for	204	302+
Electrical processes for	204	186+
Electrolytic treatment	204	130+
Electrophoresis or electro osmotic	204	181.8+
From solid separators	4	DIG. 19
Gas contact apparatus with	261	2+
Gas operated motor condensate	415	169.2+
Gas separation combined	55	421
Process	55	85
Oil residues from paraffin	208	30+
Paper making	210	
Paraffin from mineral oil	208	28+
Sugar starch etc making	127	
Yeasts ferments etc	435	261
Magnetic for separating iron particles from other substances	209	
Metal founding mold	164	358

	Class	Subclass
Sprue	164	262+
Ore metal and coal	422	
Potato digger bearing wheel	171	112
Refrigeration	62	
Process	62	85
Solids	209	
Adhesion	209	45+
Adhesion combined	209	12+
Comminution combined	241	
Electrostatic	209	127.1+
Flotation	209	162+
Fluid handling combined	137	544+
Fluid suspension	209	132
Combined	209	13
Gaseous	209	133+
Grain scourers	99	518+
Liquid	209	155+
With cereal comminuting	241	9+
With cominuting process	241	19
With cominution	241	38+
With refrigeration	62	317
Fusible from nonfusible by heat	422	307+
Gaseous suspension	209	133
Grain scourers	99	518+
Sifting etc	209	12+
With cereal comminuting	241	9+
With comminuting process	241	19
With comminution	241	38+
With gas separation	55	
Ice cube tray	249	69+
Magnetic	209	212+
Combined	209	12+
Pretreatment	209	8
Sifter actuating elements	209	368
Stratifiers	209	478
Mercurial adhesion	209	45+
Mercurial adhesion or mercurial electrolytic synthesis of metallic oxides	204	99
Mercurial in metallurgy	75	
Mercury alloy electrolytic synthesis	204	124
Mercury suspension	209	174
Metallurgical	75	
Mining and quarrying with	299	7+
Molten metal	266	227+
Preservative compositions	252	381+
Scrap metal salvaging	29	403.3+
Sifting	209	233+
Combined	209	12+
Combined with grain hulling	99	601+
Gas borne comminuted material	241	49+
Screen with comminutor	241	69+
Sifting through comminuting	241	83
Surface	241	83+
Stratifying	209	422+
Combines	209	12+
Electrostatic	209	131
Suspension combined	209	12+
Strand spinning etc	57	354
Structurally defined	429	129+
Tobacco feeding		
Cigar making	131	110
Cigar making bunch	131	40+
Leaf disassociating	131	327
Tobacco stemming	131	313+
Tooth	433	148
Type matrix separator	199	42
Distributing to magazines	199	41
Typesetting line	276	35
Vegetable disintegrator and	241	68+
Weldless chain making link	59	11
Yeasts etc from liquids	435	261
Septic Field	405	36
Septic Tanks	210	513+
Construction	52	
Purification	210	601+
Gravitational separator combined	210	513+
Sera	424	
Serrating Edges for Tool Sharpening	76	89.1
Serrefines	606	221+
Serums	424	
Server and Service	186	
Cart	D34	14+
Strip server for coating machine	118	40+
Table self service		
Plural related surface horizontally adjustable	108	102+
Power driven surface	108	20+
Terraced rotatable	108	94+
Timing mechanism for telephone		
Train control service stop	246	184
Type case feeding	276	45
Service Station		
Building type	137	234.6
Canopy combined with pump	D15	9.1+
Dispensers	D15	9.1+
Gasoline pump	D15	9.1+
Lubricator or oil collector	D15	151+
Mobile unit	D12	14+
Servomotor		
Electric system	318	560+
Hydraulic	91	
Sesamin	549	435
Set, Display Pyrotechnic	102	355
Sets		
Nail sets	81	44
Radio telegraphy	375	
Telegraph portable key and sounder combined	178	78
Telephone portable sets for testing lines	379	21
Telephone wall sets	379	435
Setscrew		
Guard	74	617
Shaft	403	362
Socket holder	279	83
Settable Material		
Bolt or nut to substructure lock	411	82
Bolt to nut lock	411	258
Settees	297	232+
Design	D 6	334+
Swinging	297	282
Setters Bowling Pin		
Mechanical	273	42R+
Spots	273	52
Spotters	273	46
Setting		
Ammunition loading bullet	86	43
Broom and mop handle	300	20
Brush tuft	300	2+
Button eyelet and rivet	227	51+
Electric clock hand	368	60+
Eyelets	227	51+
Gem		
Jewelry	63	26+
Jewelry design	D11	91+
Setting method and apparatus	29	10
Watchmakers tools	81	6+
Glaziers points	227	
Leather	69	
Plants	111	100+
Covers	47	28.1+
Manual dibbling tools	111	92+
Register zero	235	144R
Rivets	227	51+
Hollow rivets	227	51+
Saw	76	58+
Stage	272	11+
Staple	227	
Switch	246	
Type	276	
Watch stem winding and	368	190+
Watchmakers jewel setting tools	81	7
Wheel spokes	157	3+
Wheel tires	157	5+
Wire spring	140	89
Wood pin	227	
Settling Tanks and Chambers		
Automatic fluid distributing	137	255+
Beer foam separators	137	170.1+
Carbon black making	422	150+
Liquid separation and purification		
Decanter and filter	210	295+
Decanter or settler	210	513+
Liquid suspension type separation of solids	209	155+
Solids separation combined	209	12+
Starch making	127	27
Sugar making	127	57
Seven Grid Limiter Discriminator	313	300
Severing (See Cutting; Sawing)		
Abrading for	51	98R
Breaking	225	1+
Glass (See search notes)	83	879+
With glass manufacturing	65	174
Punching	83	
Stone splitting	125	43
Tearing	225	
Well tubing in situ	166	55
Sewage		
Aerators, diffusers	261	DIG. 7
Aerators, rotating	261	DIG. 71
Electrolytic treatment	204	149+
Fertilizer making	422	193+
Processes and products	71	19+
Furnaces burning	110	238
Purification (See settling tanks)	210	
Sewerage	137	
Manhole	52	19+
Pipe cleaners	15	104.31+
Design	D32	14
Sewage purification	210	
Sewer reamer, design	D32	14
Sewer ventilation	112	
With cover	52	20
Sewing and Sewing Machine (See Stitching)	112	
Abrading attachments for	51	256+
Air work handling	112	DIG. 2+
Apparel seams	2	275+
Bobbin winding	112	279
Book bindings	281	27
Cabinet and parts	D15	66+
Carrying case	312	208
Cooling elements	112	280
Covers for	312	208
Design	D15	75
Cutting attachments for	112	130
Fans combined	416	60
Filled sacks	112	11
Filling combined	53	139
Hat sweatbands	2	184
Implements design	D 3	18
Kit	D 9	303
Lights for	362	90
Machine, design	D15	69+
Sleeve-type surface	D15	68
Treadle	D15	67
Machines with tables or stands	112	217.1+
Pneumatic, digest	112	DIG. 3+
Sheet retainer inserts binder strand through sheet	402	7
Shoe lasting and	12	13.2
Shuttle winding	242	20+
Special machines	112	2+
Starting and stopping	112	271+
Stitch forming	112	154+
Suction thread cutting	112	DIG. 1+
Tables with work catcher	112	217.1+
Tension devices	242	147R+
Thread cutting, severing, or breaking	112	285+
Threads	57	903*
Treadle machine conversion	112	217.4
Work manipulating	112	122+
Zigzag	112	157+
Backstitch	112	451
Buttonhole	112	446+
Cam activation	112	459+
Cam actuation	112	459+
Electronic memory	112	453+
Sextant		
Artificial horizon	356	143
Artificial horizon	356	148+
Optical	356	138+
Straight ray	33	268+
Shackle		
Animal restraining	119	128
Design	D30	151+
Butchering	17	44
Chain link	59	86
Closure fastening	292	328+
Dies for making	72	472
Foot and hand for prisoners	70	18
For padlocks	70	53
Lock type	70	18
Vehicle spring end	267	271+
Shades	160	
Eye	2	12+
Design	D29	18+
Hat with	2	177
Lamp	362	351+
Design	D26	118+
Inverted bowl devise	362	453+
Pull or tassel	D 6	581
Support	362	433+
Mounting hardware	D 8	354+
Optical instrument	350	580+
Plant	47	26
Pull of cord or fabric	D 6	581
Window	D 6	581
Shading Devices	118	79

	Class	Subclass
Pens	15	435+
Shaft	464	179
Aligning and leveling	33	412
Angle transducer	250	231.13
Arrows	273	416+
Axle land vehicle	301	126
Bearings	384	
Clutch	192	110R
Couplings	403	
Flexible	464	
Crank		
Bearing antifriction	384	457+
Bearing plain	384	250
Lathes	82	106+
Making		
Apparatus	29	6.1
Method	29	888.8
Earth boring means combined	175	320+
Earth, eg mine	405	133+
Flexible	464	
Portable drill	408	127
Furnace	432	95+
Fume arrester with	266	144+
Metallurgical	266	197+
Hanger	384	442+
Housing	464	
Flexible shaft combined	464	52+
Hub connections	403	
Joint packings	277	
Joints (See joints)		
Locks	70	182+
Metallurgical furnace	266	197+
Mucking machines	414	916+
Process abrading	51	289R
Speed recorders	346	
Wagon	278	33+
Wall retainer	405	272+
Shaker		
Shaking		
Apparatus		
Grates	126	152R+
Automobile	73	669+
Devices		
Cleaning machine	15	94
Filled cooking receptacle in oven	99	371
Gas filter cleaning	55	304+
Heat exchanger	165	84
Portable receptacle unloading	414	415
Separator receiver	209	64
Shotting combined for cleaning	15	96
Sifter horizontal or inclined	209	309+
Sifters	209	233+
Sprinkler or sprayer	239	374
Vehicle unloader	414	375
Vehicle unloader tilting track	414	357
Pivotable movement	414	362
Receptacle	366	
Clothes washing machine	68	171+
Table		
Grain separator straw carrier	460	90+
Separator receiver	209	64
Sifter	209	309+
Shale		
Distillation	201	
Mineral oil from	208	400+
Shale Oil		
Recovery	208	400+
Sham Holders Pillow	5	492
Shampoo	252	89.1+
Shank		
Buttons	24	92
Cloth	24	92
Making	79	2
Sewing machine attaching	112	108+
Key	70	402
Extensible	70	397
Foldable	70	396
Plural	70	401
Manufacture of metal knobs	29	161
Padlock nonshackle type	70	34
Railway spike shank brace	238	309
Railway track clamp anchor	238	345
Shoe	36	76R
Loose upper shaping	12	54.1+
Machines	12	40.5
Tool and machine parts		
Handle fastenings	403	
Slidably adjustable wrenches	81	129+
Wrench attachments	81	184
Wrench handles and	81	177.1+
Shape Memory Alloy	148	402

	Class	Subclass
Shaping (See Product Itself; Molding)	29	
Abrading or grinding	51	
Boring	408	
Comminution combined	241	3
Cone wound bobbin or cop shaper	242	34
Dental instruments for	433	25+
Die (See die)		
Directly applied fluid pressure differential	264	500+
Drilling	408	
Food	99	
Bread pastry and confection making, food apparatus	99	
Bread pastry and confection making, shaping apparatus	425	
Cooking and	99	324+
Dairy molds	249	
Meat briquetting apparatus	17	32
Hay stack shapers	414	132
Metal		
Bending to angle	72	176+
Casting combined	29	527.5+
Coating combined	29	527.2+
Corrugating	72	180
Deforming	72	
Drawing sheet metal	72	347+
Drawing through die	72	274+
Electric heating and	219	149+
Extruding	72	253.1+
Indirectly	72	273.5
Molten metal	164	
Plastic metal	72	
Powder apparatus	425	78+
Powder processes	419	61+
Pressure or impact forging	72	
Rolling	72	199+
Sheet metal by dies	72	
Spinning	72	82+
Wire fabric	140	107
Wire into articles and fabrics	140	
Milling	409	64+
Nonmetallic		
Briquetting fuel	44	593+
Coopering	147	
Glass	65	
Ironing and smoothing textiles	38	
Leather	69	
Paper	493	395+
Plastic block and earthenware	425	
Plastics	425	
Sand molds for metal	164	
Stone	125	
Tobacco plug	131	111+
Wood sawing	83	
Wood turning	142	
Woodworking	144	
Pencil sharpeners (See pencil sharpener)		
Planing	409	288+
Screw threading	408	
Stack or pile shaping	414	788.9+
Turning	82	
Shares for Plows	172	681+
Forging dies for making	72	425
Making machines and processes	29	14
Sharpener	83	174+
Abrading or grinding	51	
Design, knife or scissors	D 8	93
Button surfacing with tool	79	8
Combined with cutting machine tool	83	174+
Cutlery with	30	138+
Disk plow	172	439
Drill forming and	76	5.1+
Harvester cutting reel type	56	250
Horseshoe calk	168	46
Making and sharpening	59	65
Knife or scissors		
Combined with can opener	D 8	35
Powered tool	D 8	63
Metal etching	204	141.5
Pencil (See pencil sharpener)	30	451+
Design of	D19	73
Machine	144	28.1+
Razor with	30	35+
Saw	76	30+
Tool	76	82+
Shaving and Shaver		
Brushes	D 4	135
Design	D 4	114
With drip cup or shield	15	248R+
With soap supply	401	268+

	Class	Subclass
Comminutor type		
Ice	30	136+
Mill	241	83+
Vegetable and meat	241	
Cream	424	
Cups	220	
Electric	30	45
Gear	409	37
Hair planers	30	30+
Design	D28	44
Hat	223	19
Kits	132	289+
Brush or soap retained	401	118+
Pencil (See pencil sharpener)	30	451+
Razor	30	32+
Blades	30	346+
Dry shaver	30	43
Screw head	10	8
Spoke	30	281
Woodworking	144	155+
Shavings Feeding to Furnace	110	102
Shawls	2	91
Design	D 2	179+
Sheet Handling		
Binding	56	432+
Carriers	56	474+
Composite construction	52	334
Cornstalk loader	56	120
Carrier	56	121
Crop threshing or separating	460	19
Shocker	56	401+
Shear Line, Cylinder Lock	70	496
Shear Pin	464	32+
Shearing & Shears (See Cutter)		
Bolt and rivet making	10	25
Buttonhole	30	120
Can opener	30	428
Cutlery combined		
Knife	30	146
Nipper	30	145
Design	D 8	93
Gauges for shears	33	631
Ground supported hand operated harvester	56	241
Handle and blade connections	30	341
Holder or disposal combined	30	131+
Manicure	30	29
Plier combined	7	125+
Modified handle	7	131+
Receptacle combined		
Cigar receptacle	206	238+
Dispensing sheet receptacle	206	216
Ticket holder receptacle	30	124+
Shears hand manipulable	30	194+
Stone shearing	125	23.1+
Surgical	606	174
Textile		
Cloth finishing	26	15R+
Thread finishing	28	226+
Sheath (See Scabbard; Sheathing)	224	191+
Awl or prick punch	30	368
Cable	74	502.5
Cutlery	30	151+
Two or more cutters	30	143
Design	D 3	102
Hair comb	132	143
With brush	132	121
Manicuring tool	132	76.2
Padlock	70	55
Splitters	30	90.1+
Surface supporting	108	150+
Wire strippers	81	9.4+
Sheathing (See Facer Sheathing (See Facer Construction;)		
Earth control	405	272+
Tunnel or shaft lining	405	132+
Electrical conductor	174	68.1+
Making		
Indefinite length electrical conductor	156	47+
Metal extrusion	72	268
Packing	277	229+
Railway car		
Freight	105	409+
Passenger	105	401
Ship	114	84
Sheave (See Pulley)		
Reeling storage	242	47.5
Shed		
Animal husbandry	119	16
Buildings	52	

	Class	Subclass
For jacquard looms	139	64
Locomotive	104	51+
Shedding		
Loom	139	55.1
Cam	139	79
Dobby	139	66R
Jacquard	139	59
Sheet and Sheet Material (see Composition)		
Accounting and listing form	283	66.1+
Advancing material of indeterminate length	226	
Apertured	428	131+
Associating and folding	270	
Spacer for drying	34	6
Bedding	5	482
Contour bedding	5	497
Restraining	5	498
Binder device releasably engaging aperture or notch of sheet	402	
Boiler		
Crown	122	496
Tube	122	512
Bracket shelf of	248	247+
Cloth	D 5	
Coated	428	411.1+
Sheets	446	108+
Composite	428	411.1+
Composite with cellular layer	428	304.4+
Composite with foamed layer	428	304.4
Construction toys of	446	108+
Container for coiled form	206	389+
Control (See pattern control)		
Electric circuit maker	200	46
Stop mechanism	192	126+
Cookie	99	422+
Corner structure	428	81+
Counting	235	89R
Cover with	428	68+
Creped	428	152+
Discontinous coating with	428	195+
Easel of	248	441.1+
Edge feature	428	192+
Edge fold	428	121+
Edge spliced	428	57+
Expanded metal making	29	6.1
Feeding and delivery	271	
Dispensing cabinet magazine	312	37
Electrophotographic	355	308+
Collating	355	323
Imbricating	355	322
Interleaving	355	325
Separators, pneumatic	355	312
Sorting	355	323
Stacking	355	322
Strippers	355	315
Magnetic alterations	271	901+
Manifolding	282	
Reverse direction of sheet movement	271	902
Separators, pneumatic	271	90+
Separators, rotary	271	109+
Strippers	271	900
Support rack for paper	211	45+
Support rack stacked	211	50+
Towel service locking rack	211	6
Towel service rack	211	16
Typewriter paper on edge	271	903
Typewriter paper	400	624+
Winding and reeling	242	
Figure toys of	446	387+
Filter	210	348+
Fire escape body catcher	182	138+
Flanged pipe joint packing of	285	363+
Garment hanger	223	87
Gas and liquid contact porous	261	100+
Grooved	428	161+
Holders and securing devices		
Billiard table cloth	273	7
Cleaning fabric	15	231+
Cylindrical for sandpaper	51	358+
Endless conveyor with gripper	198	688.1+
Handled for sandpaper	51	392+
Manifolding pockets	282	11.5 R
Music stands	248	441.1+
Pack holders	271	145+
Printing	101	415.1
Rack	211	45+
Sandpaper disc	51	358+
Shoe last with retainers	12	141
Stack rack	211	50+
Tray	206	557+
Wall mounted tray	211	88
Joined	428	57+
Laminate	428	411.1+
Making		
Coating and uniting	156	
Drying	34	
Electroforming	204	12+
Electrolytic coating metal	204	27+
Glass	65	
Metal and foil	29	17.1+
Metal by rolling	72	199+
Pastry rolling	425	363+
Pastry rolling	425	335+
Plastic rolling or pressing	425	
Pulp molding compressor	162	396+
Pulp molding winder	162	283+
Metal		
Can making machines	413	26+
Cap preparing	413	8+
Apparatus	413	56+
Pattern and texture design	D 5	1+
Metal laminate	428	615+
Metal shaping (See particular operation)		
Chain making	59	13+
Container making	413	
Sprocket chain making	59	6
Staple making	59	72
Wire barbing	140	66
Metal structures and articles	405	276+
Bale tie band	24	23R+
Cabinets	312	
Can closures	220	200+
Chain link	59	91
Closure seal	292	310+
Connecting rods	74	588
Containers	220	
Display packages	206	44B+
Drive chain	474	202+
Electroplating	204	27+
Flumes	405	119+
Gearing sectional	74	449
Heat radiator	165	170
Hook	24	698.2
Jar closures	215	200+
Joint packing reinforcement	277	
Nails spikes tacks	411	439+
Piling	405	274+
Pipe joint	285	424
Pulley	474	166+
Rack support for receptacle	211	72+
Railway ties	238	63+
Railway wheel web	295	22+
Resilient clasps	24	530+
Sash cord guide casing	16	212
Separable-fasteners	24	572+
Shaft hangers	384	443
Shelf type with support	108	
Diverse support for articles	108	28
Spools	242	118.8
Stove for heating	126	65+
Stove legs	126	306
Nonrectangular	428	80+
Nonstructural	428	411.1+
Note musical		
Music teaching	84	483.1
Musical automatic instrument	84	146+
Opening cutter	402	1
Pack holders	271	145+
Package of coiled sheets	206	449+
Package of flat sheets	206	449+
Paper dispensing package	206	449+
Paper wrapping	229	87.1+
Mailing	229	92
Pavement	404	17+
Combined block and	404	18
Perimeter structure	428	81+
Picture support of	248	441.1+
Piling	405	274+
Printing smut preventing	101	419
Railway tie		
Folded sheet	238	77
Reinforcing	238	93
Receptacle stand of	248	152
Receptacle support of	211	72+
Ribbed	428	161+
Roofing	427	147+
Sorting type rack	211	10+
Spacer	402	80R
Spliced	428	57+
Spot bonded	428	198+
Stand of	248	174
Stencil	101	127
Structurally defined	428	98+
Structurally defined element therein	428	221+
Tearing or breaking	225	
Testing sheet material	73	159+
Bursting strength	73	838+
Flatness, optically	356	371
Transparency, optically	356	432+
Thread for pin type insulator	174	204
Treating		
Abrasive applying	51	275
Brushing machines	15	77
Chemically cleaning	134	
Coating	118	
Coating electrolytically	204	22+
Cutting	83	
Drying apparatus	34	148+
Drying method	34	18
Gas contacting	34	23+
Heat	108	28
Ironing shaking out	38	143
Radiant heating	34	41
Stencil making	101	128.4
Wiping machines	15	102
Winding & reeling	242	
Wrapper for coiled form	206	389+
Wrinkled	428	152+
Shelf and Shelving	108	
Attached laterally of support	108	152
Baggage convertible	190	9+
Bookcase shelving		
Design	D 6	567+
Enclosed	312	
Open	108	59+
Cabinet with racks or shelves	312	
Showcase type	312	128+
Covering	428	68
Apertured	428	131+
Edge fold	428	121+
Design	D 6	567+
Display receptacle	206	45
Drying apparatus		
Removable	34	192+
Shelf to shelf material flow	34	165+
Endless conveyer with coacting support	198	860.1
Plural conveying sections	198	600
Heat exchange	165	168+
Ironing board with folding support	108	115+
Loading or unloading	414	266+
Loading or unloading	414	227+
Main or coin chute	232	63
Paper design	D 5	
Rack, plural shelf	108	59+
Shoe or boot rack	211	36
Stove	126	332+
Supports	248	235+
Terraced shelf rack convertible to table	108	17
With structural installation	108	42+
With upward extending support	108	149
Shell		
Ammunition	102	
Cartridge	102	464+
Design	D22	116+
Explosive	102	473+
Extracting implements	81	3.5
Feeding devices (See gun loading)	86	46
Loading	86	23+
Making	86	10+
Making metal working	29	1.3+
Brake shoe	188	254
Edible		
Cereal	426	138+
Design	D 1	
Electrical connector socket	439	753+
Foundry molds	164	361
Shell openers	30	120.1
Shellac	530	201
Sheller	460	45
Corn	460	45+
Feeders for	460	16+
Green	99	567
Cutlery	30	120.1+
Nutcracker	30	120.2
Pea	460	131
Vegetable cutter combined	99	
Shellfish		
Apparatus	17	53

	Class	Subclass
Apparatus	17	71+
Openers	17	71+
Openers	17	74+
Culture	119	2
Mollusk	119	4
Dredgers	37	55
Opening process	17	48
Scoops	37	119
Shelves (See Shelf & Shelving)		
Sherbets	426	101+
Design	D 1	
Shield (See Guard; Protective; Screen; Stencil)		
Abrading	51	271
Button cleaning	51	265
Anti-magnetic, anti-inductive	174	35R
Apparel	2	2+
Armpit	2	53+
Brassiere	450	37
Corset or girdle	450	153
Design, garment	D 2	225+
Dress shield making	223	54
Armour	109	78+
Ship	114	14
Brush and broom		
Drip	15	248R+
Head	15	175
Coffin	27	20
Corner		
Baggage	109	37
Building	52	288
Counter or display partition	109	11+
Curtain shade or screen	160	19+
Distilling retort	202	224
Electric	174	35R+
Conductor	174	102R+
Ignition	315	85
Insulator	174	139+
Lamp & electronic tube systems	315	85
Radio	455	300+
Resistor	338	64+
Shock preventive	174	5R
Erasing	51	262.1
Faraday	174	35R
Transformer with	336	69+
Fire shield, portable	169	48+
Fume flow in arc lamp	314	26+
Hand		
Handling implements	294	131
Sadiron	38	95
Harness	54	80
Breast strap	54	59
Hitching	119	143+
Loop shields	24	183
Heat	228	59*
Heat for ammunition	244	158R
Aircraft use	244	117R+
Infra-red	350	1.1+
Metal treatment	148	149
Nuclear reactions	376	153
Nuclear reactions	376	156
Nuclear reactions	376	913
Ultra-violet	350	1.1+
Light filters	350	311+
Locked	70	158+
Mast	114	93
Ordnance	89	36.1+
Design	D22	112
Piston splash	92	141
Propeller marine	440	71
Radiator	237	79
Automobile	293	115
Radioactivity	250	515.1
Geiger muller tube having	313	93
Nuclear reactions	376	153
Nuclear reactions	376	156
Nuclear reactions	376	913
Rigid shield or pad positioned between article & bearer	224	907*
Solder splash	228	21
Surgical	128	849+
Headed securing rod	403	360
Tunnel	405	141
Windshield		
Aircraft	244	121
Harvester	56	190
Vehicle storm fronts	296	77.1+
Ventilating cowl	98	71
Windshield, vehicle	296	84.1+
X ray	250	515.1
Bucky grid	378	154
Shutter or diaphragm type	378	145
Tube structure	378	140
Variable aperture	378	150
Shifter		
Belt	474	101+
Railway cable	104	198
Brush		
Dynamoelectric	310	241
Generator system	322	54+
Motor system	318	541+
Changeable exhibitor	40	446+
Copyholder copy or line guide (See copyholder)	40	341+
Feeding table for metal rolling	72	222
Railway cable	104	198
Track or tie	254	43
Laying	104	4
Typewriter case	400	251+
Shifting Field Motor	310	172
Shim Rod (See Nuclear, Control)	376	207
Shim rod	376	327
Shim rod	376	219
Shim rod	376	347
Shims		
Bearing adjusting	384	626
Brake slack adjusting	188	201
Shingle	52	518+
Container	206	323+
Gauges	33	648+
Combined with hatchet or hammer	7	122+
Making	83	920*
Making machines woodworking	144	13
Sawing	83	704+
Roofing coating	427	186
Ship	114	
Anchor	114	294+
Automatic controlled steering	114	144R+
Ballasting	114	121+
Bilge discharge	114	183R+
Building	114	65R+
Bulkheads and doors	114	116+
Cable stoppers	114	199+
Caissons	405	12
Canals	405	84+
Centerboards	114	127+
Clamps for ship planking	269	91+
Coaling and loading	414	137.1+
Traversing hoists	212	72
Condensers	165	41+
Course recorder	346	8
Design	D12	300+
Drydocks for	405	4+
Engine room telegraph	116	21
Electrical	340	286.4+
Furniture	114	188+
Hatches and covers	114	201R+
Ice boats	114	43+
Ice breakers	114	40+
Indicating and signaling		
Course recorder	346	8
Course signaling	116	19
Navigation instruments	73	178R+
Rudder position	116	303
Running lights	362	61+
Shoal water alarms	116	113
Telegraphs	116	21
Keels	114	140+
Ladders	182	82+
Steps level	182	1
Launching	405	1
Life craft handling aboard	114	365+
Lifting mechanism	114	50+
Liquid purifier type	210	242.1
Mother	114	258
Nautical signalling	116	26+
Ports	114	173+
Propellers	416	
Propulsion	440	
Raising and docking	114	44+
Refrigeration	62	240
Repairing	114	44+
Running lights	362	61+
Sailboats	114	39.1+
Sails and rigging	114	102+
Scows	114	26+
Sounding and depth measuring (See sounding)		
Spars	114	89+
Speed control automatic	114	144R+
Steering mechanism	114	144R+
Stoves	126	24
Submarines	114	6+
Torpedo boats	114	18+
Torpedo guards	114	240R+
Torpedoes	114	20.1+
Towing or pushing	114	242+
Ventilation	114	211
Ventilation of grain cargo	98	53
Warships	114	1+
Shipper		
Clutch	192	98
Marine vessel rudder	114	165
Side cut mower automatic clutch	56	274
Transmission control and brake	192	10
Shirring	223	28+
Cords for flexible bags	383	72
Garment trimming	2	244
Sewing machines	112	132+
Shirt		
Coat combined	2	95
Collar attaching to	2	139+
Design	D 2	208
Mens outer	2	115+
Pajama	2	114
Trousers supported by	2	229
Under	2	113+
Union type bifurcated	2	77
Vest combined	2	103
Shock Absorber (See Dashpot)		
Dial indicator type	33	DIG. 6
Fluid	188	266+
Thrust member, variable volume chamber	188	297+
Harvester reciprocating cutters	56	306
Nuclear reactor control	376	234
Component combined	376	285
Nuclear reactor control	376	327
Recoil ordinance	89	42.1+
Spring type	267	
Bed	5	253
Support type, nonresilient	248	636+
Support type, resilient	248	562+
Suspended machine	248	610+
Testing	73	11
Textile feeding knitting	66	130
Vehicle		
Body suspension frame	280	784
Fender	293	132+
Fluid absorbs	293	107+
Railway	105	392.5
Railway coupling	213	7+
Running gear	280	688+
Seat	297	216
Weighing scales	177	184+
Shocker and Shock Delivery		
Electric		
Amusement devices	272	27R
Animal restraining devices	119	145
Bandaging	128	82.1
Check operated	194	
Electric chairs	128	377+
Electric fences	256	10
Electrocuting animal	43	98
Electrocuting trap insect	43	112
Fishing	43	4
Trawl net type	43	9.6
Food preservation	426	237+
Food preservation apparatus	99	451
Kinesitherapy eg massage	128	24.1+
Kinesitherapy eg massage	128	68.1
Medicators	604	20+
Miscellaneous	361	225+
Receptors	604	20+
Safes	109	35
Sterilizing method	422	22
Surgical applications	128	362+
Surgical instruments	606	32+
Therapy, medical	128	419S
Harvester	56	401+
Shoe		
Animal wear	36	111
Design	D30	146+
Farriery	168	
Making	59	36+
Oxshoe making	59	70
Apparel	36	
Accessory	36	136+
Anti-slipping devices	36	59R+
Athletic	36	114+
Bathing	36	8.1
Bowling	36	130

	Class	Subclass
Box	206	278
Buttoners	24	40
Cement	36	DIG. 1
Cleaning type	15	227
Cleat	36	134
Design	D 2	264*
Foot elevators	36	81
Footbolt	36	128
Heels	36	34R*
Insoles	36	43*
Jumping	36	7.8
Lacing devices	24	712
Light thermal and electrical	128	382*
Making (See boot making)	12	
Non-leather	36	84*
Occupation specialized	36	113
Ornaments	2	245
Patterns	33	3R*
Plastic	36	DIG. 2
Pricking sales	83	866*
Putting on and removing aids	223	113*
Rack	211	34*
Riding	36	131
Rubber	36	4
Running	36	129
Sandal	36	11.5
Sewing machines	112	28*
Shoehorns	223	118*
Shoelace design	D 2	316
Shoelace rocks	211	61
Shoemakers bench	12	122
Skate attaching	280	11.3*
Ski	36	117*
Slippers for inside	36	10
Sole attaching means	36	12*
Soles	36	25R*
Strap tighteners	24	685K*
Support feature	36	88*
Track	36	129
Uppers	36	45*
Water proofed finish	36	98
Brake	188	250R*
Beam combined	188	219.1*
Fasteners	188	234*
Momentum operated wedging	188	136
Railway chock roller type	188	37
Railway side	188	59
Railway top	188	57
Railway track rotary	188	39
Vehicle fender combined	293	8
Vehicle type top	188	29
Wagon type retreating	188	15
Wear compensation	188	215
Wheel rotary	188	80
Bridge truss	14	15
Cleaning (See polishing & cleaning)		
Cleat or spike	D 2	317
Demonstration	434	397
Filling compositions	106	38
Flatiron attachments	38	97
Harvester cutter member	56	393
Track clearers with socket	56	319
Horn	223	118*
Design	D 2	642
Lace	D 2	316
Lace tip applier	29	243.57
Panel hangers or travelers	16	93R*
Pedals with clips for	74	594.6
Plow	172	764
Body shoe and guide	172	764
Polishing and cleaning		
Applicator carried by closure	401	126*
Brushing machine	15	36*
Brushing machine with polish supply	15	30*
Composition	106	3*
Implement with material supply	401	
Mitts cots and shoes	15	227
Shoe blacking stands	15	265*
Shoe impregnated or coated with cleaning material	15	104.94
Rack	211	34*
Railway switch point throwers	246	269
Safety	36	77R
Shine kit	D 3	30.1*
Shine machine	D32	14.1
Shine stand with seat	D 6	334*
Shoehorn	D 2	642
Snow	36	122*
Third rail collector	191	49
Trees	12	114.2*
Design	D 2	314.1
Vehicle (See brake)		
Earth working tool with	172	
Fender with car control	293	8
Railway draft central friction post	213	36
Railway draft friction casing	213	32R*
Railway draft spring and friction	213	24
Two wheeled scoop with	37	131
Water	441	76*
Well casing	166	242
With cutting or scraping means	175	402
With screen	166	157
Shooting Gallery Game	D21	2*
Shooting Lines		
Fishing apparatus	43	6
Line carrying ammunition	102	504
Bomb lances	102	371
Line projector or projectile	182	50
Explosive	89	1.34
Shooting Targets	D21	5
Shopping Bag	383	6
Handle attaching	493	226
Shorings		
Earth control	405	272
Mine roof props	405	288*
Trench walls	405	282*
Short Circuit		
For arc lamps	314	10*
For incandescent lamps	315	119*
Safety device	174	5R
Safety system	361	1*
Shortening	426	601*
Shorthand		
Code	283	46
Writing form	283	45
Teaching	434	158*
Typewriter	400	91*
Shot		
Blasting	72	53
Metal working digest	29	DIG. 36
Cartridges	102	448*
Earth boring by	175	54
Making	29	1.22*
Metal making		
Apparatus	425	6*
Processes	264	5*
Shotgun	D22	103
Shotguns (See Rifle)	42	
Design	D22	103
Shotting		
Cleaning machine	15	95*
Methods	134	7
Shoulder		
Braces pads and supports	2	45
Back and	2	44
Body protecting	2	2
Brassiere combined	450	2
Corset or girdle combined	450	96
Garment shaping	2	268
Garment supporting	2	305
Rests for violinists	84	280
Combined with chin rest	84	278
Tang holding chuck	279	89*
Shovel		
Crane	212	243
Excavating	37	
Design	D 8	10
Hand manipulable	294	49*
Design	D 8	10
Making		
Blanks and processes	76	113
Disc	72	470*
Plow or cultivator type	172	768
Railway car loading	414	340*
Repositioning support to load or unload	414	349*
Snow	294	54.5
Train of vehicles	414	339
Showcase		
Cabinet	312	114*
Design	D 6	432*
Outdoor type	312	102
Illumination	362	125
Joint between glass walls	312	140
Show or picture window	52	777*
Show or picture window	52	764*
Shower (See Sprinkling)		
Bath	4	615*
Hot air combined	4	525*
Surgical	128	366
Design	D23	283
Design, cap	D 2	510*
Heads	239	548*
Design	D23	213*
Temperature control of water	236	12.1*
Shrapnel	102	491*
Shredded Cereal Biscuit	426	560
Apparatus	425	289*
Design	D 1	
Shredders and Shredding	241	
Metal	29	4.51*
Shrinking		
Metal bands by hammering or pressing	72	399*
Shrink fitting	29	447
Metal working digest	29	DIG. 35
Testing for	73	159*
Textiles	26	18.5
Thread compacting	26	18.6
Tire	72	292
Shrinkproofing Fabrics	26	18.5*
Shuffleboard	273	126R
Design	D21	7*
Shunt		
For electromagnet	335	236*
Resistor	338	49
With meter	324	126
Shutter		
Architectural design	D25	47*
Camera	354	226*
Automatic control	354	410*
Copying camera	355	71
Curtain	354	241*
Delayed releaser	354	237*
Diaphragm	354	270*
Focal plane	354	241*
Image projector	353	88*
Iris diaphragm	354	270*
Iris type	354	241*
Mechanical testing	73	5
Motion picture	352	204*
Optical testing	73	5
Pivoted leaves	354	241*
Sliding	354	245*
Check controlled	194	
Curtain shade or screen combined	160	104
Fastener or hook for	D 8	349*
Ladder convertible	182	21
Operator	49	324*
Projector illuminating	362	277*
X ray	378	160
Shuttle		
Boxes	139	183
Braiding tatting and netting	87	54*
Changing in looms	139	234*
Gripper	139	196.2*
Sewing machine	112	185*
Sewing machine	112	232*
Design	D15	72
Threaders	139	381*
Winding		
Sewing machine	242	20*
Tatting	242	52
Shuttlecock	273	417
Design	D21	207
Sialon Refractory Compositions	501	98
Sickle		
Hand manipulable	30	309
Machine using	56	229*
Side Lights	362	61*
Side Lock (See Lock)		
Sidearms	D22	100*
Sidebar, Cylinder Lock	70	496
Sideboard		
Cabinet	312	
Design	D 6	432*
Fully enclosed storage	D 6	432*
Dumping vehicle	298	
Refrigerator combined	62	258
Sidehill Implement		
Harvester platform adjustment	56	209
Land vehicle body levelling	280	840*
Plows	172	204*
Steam traction vehicle boiler levelling	180	39
Tank or boiler	280	7
Sideslip	73	180
Siding	52	474*
Shingle type	52	518*
Sieve		
Liquid material	210	348*
Solid material	209	233*

	Class	Subclass
Sifter and Sifting (See Screen)		
Cabinet with	312	210.5
Kitchen utensil	D 7	667
Pneumatic conveyor intake	406	121
Potato diggers	171	71*
Potato diggers	171	111*
Separating solids		
Combined operations	209	12*
Comminuting surface apertured for	241	83*
Comminution and gas borne material	241	49*
Comminution combined	241	68*
Stove ashpan	126	244
Sight		
Bow, arrow	33	265
Dispenser inspection	222	154*
Drift	33	320
Feed lubricator	184	96*
Glass liquid level gauge	73	323*
Gun	33	233*
Design	D22	109
Design, telescopic	D16	132
Fiducial telescopes	356	247*
Illuminated sights	362	110
Letter box signal	232	34*
Line controlled scriber	33	20.1*
Opening in umbrella	135	355
Projector	362	383
Telescopes	350	567*
Sign and Sign Exhibiting	40	584*
Circuit control flashing light etc.	40	902*
Clerical desk article combined	40	358
Directional design	D20	29*
Electric signal display system	340	700*
Fiber optics, eg light pipe	40	547
Frame	D19	52
Illuminated	40	541*
Illumination itself	362	812*
Mirror having changing effect	40	900*
Mounting bracket	D 8	354*
Out-to-lunch type signs	40	907*
Pen and pencil X-art collection	40	905*
Reflecting triangle for highway use	40	903*
Roadway warning	D20	10*
Sound X-art collection	40	906*
Street	40	612
Supports	248	466*
Towed through sky	40	215
TV or radio program indicator	40	901*
Vehicle motion and direction	116	42*
Warning reflector or flasher	D10	114*
Window shade	160	10
Sign, Illuminated	362	812*
Signal	116	
Acoustic	116	67R*
Bells	116	148*
Horns	116	137R*
Sirens	116	147*
Whistles	116	137R*
Alarms	116	67R*
Amplifier condition	330	2
Annunciators	340	815.1*
Arc lamp	314	9
Automobile horns	116	137R*
Awakening device (See awakener)		
Balloons	116	DIG. 9
Bank protection	109	21
Beverage infuser	99	285
Bicycle bells	116	166
Boiler combined	122	504.2
Brake wear	188	1.11
Buoy	116	26*
Burglar electric	340	541*
Burglar mechanical	116	6*
Cabinet with	312	234
Calculator or register combined	235	128
Check controlled apparatus		
Check in circuit	194	304*
Check operated switch	194	239*
Clock alarm	368	244*
Electrically operated	368	250*
Closure position	49	13
Code signalling	116	18*
Coin operated	194	
Consumable electrode	314	9
Conveyor power driven	198	502.1*
Cooking apparatus	99	342*
Design, instruments	D10	104*
Detonating (see detonators, signal and indicators)		
Dispenser combined	222	23*
Distance measurement combined	33	740*
Cutting combined	83	522.11*
Tearing combined	225	18
Drawbridge	14	49
Dropping, ordnance	89	1.51*
Earth boring combined	175	40*
Electric	340	
Alarms	340	500*
Arc lamp	314	9
Extinguisher combined	340	289
Float gauge combined	73	308
Lamp system	315	129*
Noise or unwanted signal reduction	367	901*
Radio analog	455	
Radio directive	343	
Radio pulse or digital	375	
Telegraphy	178	
Telephony	379	
Vehicle mounted	340	425.5*
Elevator		
Electric	187	100*
Electric annunciators	187	121*
Mechanical	116	64
Mechanical alarm	116	68
Expansible chamber motor combined	91	1
Fire alarm		
Extinguisher combined	340	289
Flame	340	577*
Smoke	340	628*
Systems	340	287*
Thermal control	340	584*
Fire escape	182	18
Fire extinguisher combined	169	23
Fishing	43	16
Automatic hooker	43	17
Flags & flagstaffs	116	173*
Flexible panel combined	160	10
Float gauge combined	73	307*
Foghorn	116	137R
Electric actuation	340	384R*
Folder carried indicia	40	359
Foot operated linkage	74	514
Gas separator combined	55	274*
Illuminated by locomotive headlight	362	61*
Index card	283	36*
Lamp for vehicle	D26	28
Lamp or reflector	D10	111*
Lantern	362	166*
Letter box	232	34*
Life in undertaking	27	31
Liquid purification	210	85*
Lock condition	70	441
Masts and flagstaffs	116	173*
Mechanical	116	
Mirror combined	350	97
Nautical	116	26*
Ordnance	89	1.51*
Periodic	116	22R*
Pneumatic dispatch	406	34*
Press combined	100	99
Pyrotechnic	102	325*
Cartridge	102	346
Design	D22	112*
Parachute flares	102	337*
Railway torpedos	246	487
Skyrocket	102	347*
Torches	102	336*
Railway	246	
Audible and other signal	246	217
Audible for switch	246	217
Block signal systems	246	20*
Bridge warning	246	486
Cab signal	246	167R*
Crossing signal on train	246	208
Dispatching combined	246	2R*
Drawbridge protection	246	118*
Electric actuation	246	218*
Fluid motor actuation	246	257*
Grade crossing	246	111*
Highway crossing	246	292*
Highway crossing electric	246	125*
Interlocking	246	131
Mail delivery	258	2
Mechanical motor actuation	246	262*
Passenger at station	246	209
Pilot car	246	166
Roadway defect	246	120*
Signal car	246	166
Torpedo	246	487
Torpedo placing	246	210*
Traction cable	104	179
Train dispatching	246	2R
Train position	246	122R*
Tunnel warning	246	486
Vehicle energy actuation	246	270R*
Whistle	116	137R*
Recorder	346	
Recorder combined	346	17*
Reeling tension device	242	128
Rudder position	116	303
Safes combined	109	38*
Security instrument	D10	104*
Sheet carried indicia	40	360
Ships telegraph	116	21
Speaking tubes	181	19
Street traffic	116	63R*
Support structure	248	347
Telephony		
Central system	379	242*
Divided central	379	310*
Thermostatic regulator combined	236	94
Time	368	243*
Tire deflation	116	34R
Electric	340	442
Torpedo for railway	246	210*
Placing mechanism	246	487
Track sander combined	291	17
Traffic	116	63R
Electric	340	907*
Typewriter ribbon	400	249*
Underwater sound waves	367	131*
Vehicle	116	28R*
Watches alarm	368	244
Water heater	126	388
Water heater vessel combined	126	388
Signaling Teaching	434	223
Signature Gatherers and Conveyors		
Conveyor power driven	198	644
Machine for writing several	33	23.6
Sheet associating	270	54*
Signing machine	D18	21
Silastic T M (See Synthetic Resin or Natural Rubber)		
Silazanes	568	410*
Silencer (See Insulating, Sound; Muffle; Noise Deadening)		
Firearm and gun	89	14.4
Muffler for firearm	181	223
Silent Butler	D32	74
Silica	423	335
Abrasive compositions containing	51	308
Absorbents containing	502	407*
Aerogel	106	287.34
Catalysts containing	502	232*
Cement containing	106	737
Gel	423	338
Dispersing or stabilizing agent combined	252	315.1
Glass compositions containing	501	53*
Glass manufacturing	65	
Lime compositions containing	106	796*
Lubricants containing	252	9*
Silicane	556	465*
Silicates & Silicon Compounds, Inorganic	423	324*
Abrasive compositions containing	51	308
Absorbents containing	502	407*
Catalysts containing	502	232*
Coating or plastic compositions containing		
Alkali metal	106	286.7*
Carbide	501	87*
Glass	501	11*
Lime combined	106	792*
Opacifiers for enamels	106	312
Pigments fillers aggregates	106	400*
Portland cement type	106	713*
Portland cement type making	106	739*
Refractories	501	94*
Slag	106	789*
Detergents containing	252	89.1*
Dyeing	8	523*
Fertilizers containing	71	
Hydrofluosilicic acid	423	341
Lubricants containing	252	9*
Organic compounds	556	400*
Esters	556	482*
Silica	423	335
Silicofluorides	423	324
Silicic Acid	423	325

	Class	Subclass
Silicofluoric Acid	423	341
Silicofluorides	423	324+
Silical	556	463
Silicon	423	348
Alloys		
Aluminum	420	548
Aluminum copper	420	537
Copper	420	490
Metallic	420	578
Carbide	423	345
Ferro producing	420	578
Misc. chemical manufacture	156	DIG. 64
Organic compounds in compositions	106	287.1+
Polymers (See synthetic resin or natural rubber)		
Room-temperature curable	528	901*
Silicon Steel	148	110+
Silicone	556	465+
Compositions	106	287.13
Sillation of Polymers	525	100+
Silk		
Artificial making		
Apparatus	425	66
Apparatus	425	67+
Apparatus	425	76
Apparatus	425	382.2
Processes	264	165+
Chemical treatment	8	128.1+
Degumming	8	138
Fermentative treatment	435	268
Liberating	19	3
Screen printing	101	114+
Process	101	129
Thread finishing	28	217+
Silkworm Culture	119	6
Sill	52	204
Railway car	105	396+
Weatherstrips	49	303+
Sillimanite		
Ceramic containing	501	141+
Porcelain containing	501	141+
Refractory containing	501	128+
Silos		
Circular	52	245+
Compacting ensilage	100	65+
Portable, & means for erecting	414	919*
Prestressed	52	224
With port	52	192+
Siloxanes	556	450+
Resinous solids (See also synthetic resin or natural rubber)	528	10+
Silver		
Alloys	420	501
Chest or box for	D 3	75
Composite metal stock	428	673
Electrodeposition	204	46.1
Electrolytic synthesis	204	109+
Mercury alloy	204	126+
Hydrometallurgy	75	711+
Misc. chemical manufacture	156	DIG. 101
Organic compounds	556	110+
Proteins	530	400
Pyrometallurgy	75	634+
Silverware		
Chest or box for	D 3	75
Sorter	209	926*
Tray or container	206	557
Simulations		
Article dispensing	221	24
Cabinets with	312	204
Display	40	538+
Material dispensing combined	222	80+
Pyrotechnics	102	335
Supports digest	248	908*
Toys	446	
Velocipedes	280	827+
Sine Bar	33	536+
Snow Removing	17	11.3
Singeing		
Cloth finishing	26	3+
Electric burner	219	223+
Hair combs for	132	118
Hogs	17	20
Thread finishing	28	239
Warps	28	174
Single Grid Twin Plate Control Tube	313	303
Single Roll Crusher	241	221+
Singletree		
Horse detacher		
From thill or evener	278	32
Traces from singletree	278	24+
Sink (See Receptacles)	4	
Cabinet combined	312	228
Design	D23	284+
Disappearing bowl	4	DIG. 2
Drain board or tray	D32	56
Lining mat	D32	57
Strainers and stoppers	4	286+
Structure	4	619+
Traps	4	191+
Tub combined	4	553+
Sinker		
Fishing type	43	43.1+
Design	D22	145
Knitting machine	66	104+
Traps	43	68
Sinkhead	249	106
Sintering		
Apparatus, ore	266	176
Stationary grate	266	185
Cellular synthetic resin or natural rubber product	521	919*
Ceramic composition	501	1
Clay	264	56+
Glass granules	65	18.1
Apparatus	65	144
Ores	75	746+
Portland type cement making	106	739+
Powder metallurgy		
Processes	419	
Liquid phase	419	47
Products	75	228+
Processes	432	1+
Lime gypsum cement	106	765+
Sinusoidal Generator		
Electronic tube type oscillator	331	
Generator structure	310	
Generator system	322	
Siphon		
Acetylene generator	48	17
Boiler	122	68
Bottle	215	4+
Design	D 7	300.1
Filling	141	14+
Bowl	4	421+
Code recorder	178	91
Dispensers	222	416
Discharge assistant combined	222	204
Fluid flow meter	73	222
Fluid handling	137	123+
Automatic	137	132+
Lubricator	184	85
Plumbing	137	247.11+
Syringes	604	131+
Water closet		
Siphon bowl	4	421+
Tank	4	368+
Siren	116	147
Design	D10	120
Electric	340	405
Toy	446	205
Sirup (See Syrups)		
Sizing (See Asserter)		
Bread, pastry and confections	99	352+
Chain making	59	29
Coating compositions		
Natural resin containing	106	238
Protein containing	106	124+
Starch containing	106	210+
Coating processes	427	
Dyeing processes combined	8	495+
Finger ring forming and	29	8
Hat making	223	10
Paper tube making	493	269
Textiles chemical modification of	8	115.6
Warp threads	28	178
Skate and Skaters Appliances	280	841+
Clamp for sharpening by abrading	51	228
Design	D21	224+
Ice, powered	180	180+
Roller, powered	180	180+
Sharpening by cutting	76	83
Skaters supports	272	70+
Snow	280	600
Design	D21	224+
Strap	280	11.3
Water	441	65+
Wheels for	301	5.3+
Skeeball Game	273	352
Skein		
Axles	301	134+
Fluid treating package	8	155.2
Reeling	441	26+
Holders	242	127
Skeining	28	291
Skeleton		
Figure toys	446	373+
Keys	70	394
Plug valve	251	310+
Towers	52	648+
Skelping Metal	72	176+
Skewer Pins	17	15
Ski (See Aquaplane; Sled)	280	601+
Apparel design	D 2	31
Bindings	280	611+
Clamp type having plural diverse axes clampsps	280	DIG. 12
Controlled by skier postion or by remote control	280	DIG. 13
Brake	280	604+
Carriers	224	917*
Carriers, hand	294	147
Case	206	315.1
Clamp	280	814
Design	D21	229+
Handle or grip design	D 8	DIG. 6
Poles and sticks	280	819+
Presses	280	815
Simulators	280	842
Snow, ie, non-water, powered	180	180+
Shoe fasteners	280	611+
Trail groomer	37	219+
Teaching skiing	434	253
Water skis	441	68+
Tow line	114	253+
Work holder for	269	906*
Skid	193	41
Aircraft landing gear	244	108
Anti		
Armored resilient tire	152	167+
Boots and shoes	36	59R+
Devices for resilient tires	152	208+
Chain applier	81	15.8
Inverted vehicle	280	32
Platform	108	51.1+
Railway		
Car stop	104	260
Truck	105	216
Skidding		
Traversing hoist	212	167
Skidway	193	38+
Hoisting rope combined	414	571
Railway	104	134+
Vehicle loading conveyor	414	537+
Skillet	126	373+
Skimmer		
Concentrating evaporator	159	42
Fermentation apparatus combined	435	287+
Floating separator	210	242.1
Froth flotation	210	221.1
Gravitational separator	210	513+
Stratifiers	209	493
Skimobile	180	182
Skin Diving (See Diving Apparatus)		
Skinner		
Animal	17	21
Fish	17	62
Nut	99	584+
Process	17	50
Skins and Leather	69	
Carroting of fur	8	112
Cutting for grafting	606	132
Dyeing	8	436+
Electrolytic treatment processes	204	135
Fluid or chemical treatment	8	94.1 R+
Manipulative	8	150.5
Forming integral skin, plastic and non-metallic	264	45.5+
Skip		
Chute for rotary drum	193	10
Furnace charging	414	178
Accumulating means before release	414	168
Loading or unloading	414	639+
Mortar mixer feeding	366	39
Liquid and	366	36
Vertically swinging load handler	414	680+
Skipping		
Exercising devices	272	74+
Figure toys	446	311+
Rope skipping	446	307
Skirt		
Christmas tree base	D11	130

	Class	Subclass
Electrical insulators	174	80
Garment	2	211+
Apron	2	48+
Apron design	D 2	226+
Design	D 2	223+
Forms	223	68+
Hangers	223	95+
Hem etc markers	33	9R+
Hoop skirt making	223	6
Protectors	2	47
Protectors design	D 2	225
Undergarment, design	D 2	19+
Union type	2	71+
Machine pistons	92	208+
Skiving		
Leather	69	9+
Shoe		
Toe and heel stiffeners	12	62+
Upper machines	12	58
Skullcaps	D 2	256
Skylight	52	200
Clerestory	52	18
Dome	52	80
Skyrockets	102	347+
Skywriting	40	213
Slabs (See Panel)		
Mixing	433	49
Reinforced concrete	52	600+
Slack Adjuster	74	522
Brakes	188	196R
Slag		
Cement	106	789+
Coating or plastic compositions	501	28
Inorganic setting material containing	106	789+
Portland cement	106	714+
Electric welding with	219	73
Glass electric melting of	373	27+
Portland type cement making from	106	767
Recovering metal values from	75	
Separating, metallurgical	266	227+
Utilization other than wool		
Apparatus	65	141+
Process	65	19+
Wool		
Compositions	501	36
Making apparatus	425	6+
Manufacturing	65	1+
Slaking		
Lime	423	640
Apparatus	422	162
Slant-board	272	144+
Slashing Strand Treatment	28	178+
Slat and Slatted		
Bed	5	236.1+
Blind slat holder	292	345
Curtain shades and screens	160	130+
Slats per se	160	236
Tenoning	144	199+
Floor covering	52	660+
Shutter slats		
Vehicle body top	296	118+
Venetian blind	160	166.1+
Washboards	68	230
Wire and slat fabric	245	11
Crate	217	51
Making	140	25+
Slate		
Separating from coal	209	
Writing surface	434	423+
Slaughtering	17	
Sled	280	845+
Brakes	188	8
Automatic operator	188	128
Design	D12	6+
Dumping vehicles	298	4
Earth working tool with	172	387+
Excavating		
Scoops	37	122
Occupant-steered	280	16
Powered, eg, snowmobile	180	182+
Shuffler, eg stepper, type	180	187
Toboggan	280	18
Water	441	65+
Wheels combined	280	8+
Sledways	104	134+
Sleep Sofas	5	12.1+
Sleeping		
Awakeners (See awakeners)		
Bag	2	69.5
With bed or tent structure	5	413
Car	105	314+
Sleeve		
Apparel		
Adjustable length	2	269+
Mens shirts	2	125+
Protectors	2	59
Sleeve holders	24	15
Sleeve holders design	D 2	625
Appliers and removers	29	282
Force multiplying operator	29	244+
Hand grippers	29	280+
Manufacturing type	29	234
Manufacturing type resilient	29	235+
Bearings	384	276+
Roller	384	569
Rotary thrust collar and	384	275
Chuck pipe and rod joints	403	300+
Auxiliary detent operated by	285	82+
Chucks or sockets	279	
Duplicate ends intermediate	285	66
Electric conductor	174	84R+
Flexible	403	223
Flexible	285	235
Hinged	403	309+
Lugged pipe locking	285	82
Molded	285	292+
Rotary locking	285	377
Swivel lateral port to	285	190
Electric conductor joint	174	93
Grinding process	51	290+
Lost motion socket type chuck	279	19.6+
Pendant watchcase bow fastener	368	305
Railway axle	295	37
Railway track		
Fastenings	238	377
Rail joint	238	248
Tie plate	238	300
Strand knotter	289	12
Tobacco pipe stem with	131	228
Vehicle wheel stop engaging	301	122
Wrench traveling jaw rocking	81	105
Sleigh	280	845+
Bell	116	170
Slicer & Slicing (See Cutter)	83	707
Diminishing workpiece	83	703+
Vegetable meat etc	83	
Corer combined	99	545
Parer corer doffer combined	99	543
Wood	144	162R
Scoring combined	144	42+
Turning	142	
Slide		
Amusement	272	56.5 R
Design	D21	242+
Bearings	384	7+
Boxes	229	9+
Folded blank	229	19+
Buckles	24	190
Clasps	24	522+
Educational display	434	405
Fastener (See also zipper)	24	381+
Holder	D16	236
Machine tools		
Lathe	82	132+
Milling machine	409	145+
Turret	29	36+
Way guard	384	15+
Projector	353	
Slide holder	206	456
Slide only	40	152+
Rest	82	137+
Surface	108	65+
Table combined	384	7+
Viewer, photographic	D16	233
Slide Rule	D18	9+
Bar type	235	70R
Circular	235	78R+
Cylinder type	235	79.5
Disk type	235	84
Teaching device for music	84	471SR
Sliding		
Pole	182	100
Sling		
Animal restraining	119	100
Design	D30	151
Hopple combined	119	102
With alarm	340	573
Cartridge	224	203+
Centrifugal projector	124	4+
For firearms	42	85
Hand package	294	152+
Hoist line	294	74+
Invalid lift	5	89
Knapsack	224	205
With belt	224	215+
Liquid	239	214+
Surgical	128	94
Vehicle towing	414	563
Slinger		
Centrifugal liquid projector	239	214+
Gas and liquid contact	261	84+
Refrigerator defrost liquid	62	280
Rod packing	277	133
Sand mold compactor	164	198+
Slingshot	124	17+
Design	D22	106
Slip (See Apparel)		
Covers for chairs and seats	297	219+
Drill pipe or rod	175	423
Ferry slip	114	231
Key slip for musical instrument	84	80
Rings electric	310	232
Ship building and repairing	405	1
Undergarment	D 2	19+
Well	166	206+
Packer or plug combined	166	118+
Slipper (See Shoe)		
Fleeced soles	36	26
Inside	36	10
Slitting		
Dental crown	433	145
Shoe machines		
Folding uppers combined	12	55.1
Grooving soles combined	12	40
Welt beveling combined	112	44
Tobacco		
Ash receiver combined	131	233
End cutter combined	131	252
End slitter	131	253+
Molding perforating cutting combined	131	83.1
Webs	83	425+
Winding combined rotary cutter	242	56.2
Sliver and Sliver Making		
Assembling	368	102+
Cans	19	159A
Forming	19	150+
Stopping apparatus control	19	
Wood	144	185+
Slot and Slotted		
Airfoils	244	198+
Antenna	343	767+
Bedstead corner fastening	5	299
Bedstead pivoted leg shoulder and	5	314.1+
Forming (See specific tools; grooving)		
Hinge	16	357+
Machine slot closers	74	566
Gauge combined	83	522.11+
Making		
Milling	409	64+
Planing	409	304+
Punching	83	
Wood cutting	144	136R
Punching bolt cotter slots	10	14
Railway		
Couplings	213	75R+
Pneumatic car propulsion	104	155
Slot closers air sealing	104	161
Slot closers cable traction	104	194
Slot switches cable traction	104	195
Slotted pavement conduit	104	140+
Track slot brake	188	40
Slot machines	194	
Trolley rail two tread slotted tube	104	108
Slub Detecting	28	227+
Slubbing	19	237
Sludge		
Activated sludge		
Collector and remover	210	523+
Gas & liquid contact devices	261	75+
Processes	210	601+
Submerged fluid treating	210	220+
Surface contact aeration apparatus	210	150+
Collector and remover		
Acetylene generator	48	57
Earth boring combined	175	206+
Treatment		
Fat etc recovery from	260	412.5
Mineral oils	208	13
Sluer and Sluing		
Rotary crane	212	223+

	Class	Subclass
Cyclic	212	161
Mechanism	212	245+
Track layer	104	8
Slurry (See Sludge)		
Nuclear fuel	376	356+
Coal-type fuel in liquid	44	280+
Small Arms (See Gun)		
Smelting Metal		
Apparatus	266	
Electrothermic	75	10.1+
Furnaces	432	120+
Pyrometallurgy	75	414
Smocking	112	133
Bells	362	379
Box		
Boiler	122	
Draft regulators	110	157+
Spark arresters	110	122+
Coating by	427	248.1+
Conductors for locomotives	110	145+
Curing and smoke houses	99	467+
Detectors		
Design	D29	6
Ionization	250	381
With alarm	340	629
Measuring device	356	438
Optical system	250	574
Photoelectric	250	573+
With alarm	340	630
Disposition	55	
Arc lamps	314	26+
Electrical precipitator	55	101+
Processes	55	2+
Elimination	55	
By return to fire box	110	203+
By separating flue gases	110	148
Heating cars by smoke	237	12.5
Indicators	356	438
Jacks	104	52
Miscellaneous stacks	110	184
Monitors	356	438
Ovens smoke pipe heated	126	17
Preventing		
Buoys	441	19
By materials sprinkled on fuel	44	641
Cartridges	102	334
Drop bombs	102	334
Food smoking	99	467+
Fumigators	422	305+
Grenades	102	334
Plant frost preventing	47	2
Processes	252	305
Projectiles	102	334
Shells	102	334
Signals	116	214
Smudge pots	126	59.5
Toys	446	24+
Vermin and bee smokers	43	127+
Warfare gases	424	40
Warship smoke screens	114	15
Protection from		
Masks	128	206.12+
Oxygen inhalers	128	205.27+
Purifying and washing	55	282+
Process	55	83+
Recorders	356	438
Reduced smoke or gas generation in cellular polymer	521	903*
Return to fire	110	203+
Screen compositions	252	305+
Separating from gases	55	
Stacks	110	184
Chimneys	98	58+
Masonry and concrete	52	245+
Ships	114	187
Smoke box combined	110	121
Smoke jacks	104	52
Stove pipes	126	307R+
Sticks	17	44.4
Tobacco smoking devices	131	330+
Toy smoking devices	446	24+
Track sanding by smoke and cinders	291	4
Smoking Items (See Cigarette; Tobacco)	D27	100
Anti smoking devices	131	270
Ash receiver and cleaner combined	131	232
Cleaners	131	243+
Design	D27	
Holder for diverse items, eg matchbox attached to ashtray	224	278
Smoothing (See Ironing Devices; Press)	38	
Cigar or cigarette tip or mouthpiece applying	131	89+
Combined with making	131	30
Filter	333	181+
Leather	69	
Metal burnishing	29	90.1+
Thread finishing	28	219+
Tobacco treatment	131	324+
Leaf stemming combined	131	315+
Smudge Pot	D23	334
Smut Removal from Grain		
Abrasion or impact grain scouring	426	481+
Apparatus	99	516+
Apparatus	99	600+
Brushing etc machines	15	3.1+
Cereal comminuting processes	241	6+
Cereal food	426	481+
Preservation	426	321+
Liquid cleaning of bulk material	134	25.1
Tumbling abrading	51	163.1+
Processes	51	313+
Snaffle		
Bit for animals	54	8
Snakes		
Electricians	254	134.3 R
Plumbers	15	104.33
Snapper	56	113+
Snaps		
Acting regulators	236	48R
Actions	74	20+
Temperature and humidity regulators	236	48R
Valve	251	75
Clothing fasteners	D11	220+
Dispenser outlet element	222	498+
Glass work holder	269	
Halter	119	114
Hook	24	598.4+
Buckle combined	24	165
Separable fastener type	24	572+
Snap ring	24	16R
Switch	200	402+
Whiplash combined	231	5
Snapshot		
Binder device releasably engaging aperture or notch of sheet	402	
Display	40	152+
Folder	40	152+
Snare Drum	84	415+
Snarling Irons	72	399+
Sneakers, Footwear	D 2	310
Snelling	242	7.19
Method	242	7.2
Snip (See Shears)		
Sniperscope (See Snooperscope)		
Snooperscope		
Infrared converter tube	313	525+
With electric circuit	315	10+
Snore Inhibiting Devices		
Sleep inhibiting alarm	340	575
Surgical electrical system	128	419R
Snorkel	128	201.11
Snow		
Apparatus for making	239	14.1
Artificial	106	
Artificial	272	15
Blower	37	244+
Compressor	37	225+
Exhibitor	40	
Fences	256	12.5
Heaters		
Compressor combined	37	226
Earth thawing	405	131
Excavator combined	37	227+
Melting furnaces	126	343.5 R
Railway switch	246	428
River surface	405	61
Surface heaters	126	271.1+
Making		
By spraying water	62	121
Congealing sprayed water	62	74
Melting	37	227+
By electricity	219	213+
Compositions	252	70
Plow (See road and track clearers)	37	196+
Design	D15	11+
Scraper	37	266+
Production	239	2.2
By comminuting ice	241	
Road and track clearers	37	196+
Excavator and melter	37	227+
Railway excavator	37	198+
Railway track clearers	104	279+
Sledded scoops	37	264+
Sledded scrapers	37	270+
Snow compressor	37	225+
Roof stop	52	24+
Shoes	36	122+
Design	D21	228
Shovel	294	54.5
Skates	280	600
Design	D21	224+
Suit	D 2	31
Vehicle trailer	D12	6+
Snubber (See Dashpot; Shock Absorber)		
Crane boom	212	220
Snuffer, Flame	431	129+
Snuffer, Flame	431	144+
Candle	431	35
Candle	431	144
Soap		
Bar	252	174
Designs	D28	8.1+
Holder, design	D 6	532+
Sponge pocketed for	401	201
Bubble devices	446	15+
Detergent containing	252	108+
Biocide combined	252	107
Oxidant combined	252	96+
Packages	252	90+
Dispenser	241	602*
Dye	8	525
Fatty acid	260	413+
From mixture of acids	252	367+
Heat exchange compositions containing	252	79
Holding and feeding		
Applicator combined	401	143+
Bracket-type holder	248	200+
Clothes washer combined	68	17R
Devices	206	77.1
Dispenser type	222	
Suspended-type holder	248	317+
Washboard combined	68	224
Liquid soap dispenser	D 6	542+
Lubricants containing	252	32+
Solids containing	252	17+
Making	252	367+
Apparatus	422	129.1
Cutters for	83	
Molding devices	425	289+
Natural resin acid	530	200
Natural resin metal salts	530	200+
Rosin metal salts	530	224+
Shaving	252	108+
Kit, brush or soap retained	401	118
Kit, with toilet articles, eg	132	289
Mirror	132	291
Soccer	273	411
Social Sciences		
Computer controlled, monitored	364	419+
Socket (See Joints, Ball & Socket)	279	
Artificial body members		
Leg sockets	623	33+
Barrel hoop	217	90
Bracket article holder	248	314
Brush and broom support	248	111+
Car body stake	296	43
Castor	16	43
Electric connections	439	
Adaptor	439	
Adaptor socket	439	638+
With resistor	338	220
Fastenings and connections	279	
Cord and rope	24	136L+
Railway screw spike	238	373
Railway spike	238	371
Separable head and	24	572+
Framing	403	187+
Light	439	660+
Machine and tool part		
Brush tuft	15	191R+
Chucks	279	
Tool handle fastenings	403	
Work holder wood	142	57
Masonry anchor	52	704+
Pipe rod and shaft joints	279	
Flexible shaft	464	
Packed rod or shaft	277	
Rod	403	361

	Class	Subclass
Rotatable rod in	403	165
Whip	280	170*
Wrenches	81	121.1*
Socks	D 2	329*
Sod Cutters	172	19*
Soda and Potash	423	
Carbon compound	423	421
Oxygen compound	423	641
Recovery	423	179
Soda Fountain		
Cabinet structure, ie syrup compartments	312	
With dispensing	222	173*
Soda water apparatus (See carbonation; dispensing; foam)		
Design	D 7	300.1*
Soderberg Electrode Arc Furnace	373	60
Electrolytic apparatus	204	225*
Sodium (See Alkali Metal)		
Amalgam	420	526
Electrolytic synthesis	204	125
Chloride dissolver	422	902*
Organic compounds	260	665R
Preparation	75	745
Pyrometallurgy	75	589*
Valve cooled by	123	41.16
Making	29	888.45
Vapor lamps	313	567*
Sofa		
Bed	5	12.1*
Construction elements	5	52
Chairs and seats	297	232*
Design	D 6	334
Swing type	297	282
Exercise	272	144*
Table bed type	5	7
Soft Drinks	426	590*
Carbonated	426	590*
Softening		
Leather	69	
Protection		
By data encryption	380	4
Water	210	
Ion exchange process	210	660*
Soil		
Gas content testing	73	19.9
Handlers or conveyors	172	33
Mixer, machinery design	D15	19
Stabilizing compositions	106	900*
Treatment machinery, design	D15	21
Sol (See Colloids; Dispersing; Suspensoids)	252	302
Radioactive	252	634*
Solanum Alkaloids	546	124
Solar		
Bleaching	8	103
Celestial observation instruments	33	268
Cells	136	243
Systems	323	906*
Concentrating evaporators	159	903*
Cooker or warmer	D 7	324
Crystallization process	23	295S
Distillation of water	203	10*
Driers	34	93
Food treatment	99	
Heat accumulator structures	126	400
Heat collectors	126	417*
Heat exchange		
Automatic control of heat	165	18
Heating and cooling	165	48.1
Heating systems	237	1R
Kinesitherapy	D24	39
Living body treatment	128	372*
Panel	136	243
Photovoltaic or photoelectric generator, ie solar cell	136	243
Power plants	60	641.8*
Energizing & storage	60	659
Reflectors, curved surface	350	629*
Refrigeration utilizing	62	235.1
Spacecraft attitude control by solar pressure	244	168
Sterilizing	422	22*
Apparatus	250	428*
Stills	202	234
Distillation digest	203	DIG. 1
Stoves and furnaces	126	417*
Thermoelectric generator	136	206
Solder & Soldering (See Alloy)	228	56.3
Apparatus	228	
Design	D 8	30
Blow torches	431	344
Can body forming and side seam	228	17.5*
Can head or body seam	228	
Electric	219	129
Fuse self soldering	337	152
Heat	219	129
Metal heating	219	85.1
Soldering iron	219	227*
With pressure	219	85.1
Iron	228	51*
Design	D10	46*
Electrically heated	219	227*
Heater portable furnace	126	236*
Self heating with burner	126	413*
Permanent closure	220	600*
Stick	428	558
Temporary closure	220	200
Solderless		
Terminals	439	
Flexible wire joint	403	206*
Wire joining machines	140	113*
Sole		
Forming and attaching		
Attaching means	36	12*
Machines	12	17R*
Sewing machines	112	29*
Straighteners	12	120.5
Trimmers	12	85*
Pad		
Cleaning devices	15	227
Cushioned horseshoe	168	14
Foot supporters and	36	71
Horseshoe	168	26*
Horseshoe, design	D30	149*
Shoe	36	25R*
Antislipping devices	36	59R*
Design	D 2	317
Attaching means	36	12*
Design	D 2	319*
Design, insoles	D 2	318
Design, protectors	D 2	271
Filling compositions	106	38
Insoles	36	43*
Interfitted heel and	36	24.5
Light etc application to body	128	382*
Outsoles	36	25R*
Protectors	36	73*
Solenoid (See Magnet)		
Solid (See Liquid)		
Detectors	422	68.1*
Solid State Circuits and Devices (See Transistor)		
Solidifying (See Crystallization)		
Borehole inclinometer		
Earth control by	405	263*
Gas	62	8
Liquid by cooling	62	340*
Automatic	62	135*
Process	62	66*
Liquid comminuting combined		
Apparatus	425	222*
Processes	264	5*
Liquid fuel	44	265*
Sugar processes	127	58*
Solids Dissolving for Cooling	62	4
Solids Separating and Stratifying	209	
Solvent (See Extracting)		
Coating or plastic composition for	106	311
Compositions	252	364
Detergent having	252	89.1*
Extraction to recover hydrocarbon	585	833*
Gas package or receptacle having	206	.7
Polymer dissolver	422	901*
Recovery by drying or distillation		
Concentrating evaporators	159	
Distillation	203	
Distillation apparatus	202	
Drying combined	34	72*
Mineral oils	208	179*
Refrigerant combined	252	69
Sodium chloride & potassium chloride dissolver	422	902*
Treatment of coating	427	335
Well		
Cleaning with	166	304
Solid material recovering	299	5
Sonar and Sonics		
Flow	261	DIG. 78
Gas separation	55	277
Process	55	15
Portable sonar devices	367	910*
Simulators, sonar	434	6*
Sonar design	D10	46*
Sonar time varied gain control systems	367	900*
Sonic tests		
Compressional wave in fluid	367	87*
Gas analysis	73	24.1
Gas content	73	24.1
Seismic	367	14*
Vibration	73	570*
Vibrators	261	DIG. 48
Wave bonding, nonmetallic		
Apparatus	156	580.1*
Process	156	73.1*
Wave measurers	33	1P
Sonic		
Used in reaction to prepare inorganic or organic material	204	157.15*
Used in reaction to prepare or treat synthetic resin or natural rubber	522	1*
Soot		
Blower		
Boiler installed	122	390*
Heater installed	165	95
Catcher	126	280
Sorbent (See Absorbents)		
Air contacting with refrigeration	62	271
Process	62	94
Gas adsorption thermometer	374	159
Gas separation	55	387*
Processes	55	74*
Liquefied gas		
Producing	62	17*
Storing	62	46.1*
Refrigeration utilizing	62	476*
Automatic	62	141*
Process	62	101*
Sorbic Acid	562	601
Sorbitol	568	852*
Soral Cement	106	685*
Sorghum	426	658*
Sorption to Recover Hydrocarbon	585	820*
Sorters and Sorting		
Automatic machines	209	509*
Belts sifters	209	307*
Coin	453	3*
Data processing equipment	D14	110
Electrostatic	209	127.1*
Fluid suspension	209	132
For paper sheets	271	287
Grates or sifters	209	233*
Machines for statistical records		
Coded edges	209	608
Coded holes	209	613
Magnetic	209	212*
Racks	211	10*
Refuse treatment means	110	220
Sheet feeding or delivery	271	
By items following different trajectories	209	638
Thrower	209	642
Sorting & classifying solid items	209	
Bottles	209	522*
By sensing radiant energy	209	576*
Bottles, jars, etc	209	524*
Cigarettes, etc	209	536
Laser	209	579
X-ray	209	589
By size	209	659*
By susceptibility to deform		
Condition responsive means	209	599
Separating means	209	699
Cigarettes	209	535*
Eggs	209	510*
Electrostatic	209	127.1*
Fluid suspension	209	132*
Lumber	209	517*
Magnetic	209	212*
Mail	209	900*
Paper money	209	534
Preparing items for sorting	209	3.1*
Sifting	209	233*
Special items	209	509*
Stratifiers	209	422*
Stratifiers	209	422
Weight operated	209	645
Condition responsive controls	209	592*
Sound (See Insulating; Recording; Reproducers; Acoustics)		
Bell	116	148*
Electric	340	392*

	Class	Subclass
Boxes for phonographs	369	160*
Building structure		
Deadening in ventilators	181	224
Deadening in walls and floors	181	290*
Camera focusing, automatic	354	401
Controls direction of travel		
Airplane	244	76R*
Damping		
Refrigeration related	62	296
Vibrations in overhead electric conductors	174	42
Deadening	181	284*
Direction indicators	181	125
Ear stoppers	128	864*
Equipment illuminators	362	86
Facsimile recorders	358	296*
Gas separator combined	55	276
Forming sound grooves in record	264	106
Horn or whistle	116	137R*
Electric	340	384R*
Image converter	367	7*
Imitation	272	14
Intensity measuring	73	646*
Locating devices	181	125
Making devices, manufacture of	29	169.5
Meter	73	
Similar to pressure guage	73	432.1
Motion picture apparatus	352	1*
Music	84	
On film	369	125*
Film strip	369	16*
Mechanical	369	111
Phonograph sound box	369	160*
Post for violins	84	277
Recording and reproducing (See phonographs)	369	
Assembling process	29	169.5
Coating composition	106	37
Design	D14	
Electric	369	128*
Speech from static memory	381	51*
Electroforming	204	5
Molding apparatus	425	406*
Molding process	264	106*
Projection screen	350	117*
Talking picture	352	1*
Tape winding means	242	179*
Records	369	272*
On magnetized wire	360	89
Responsive		
Electric	381	168*
Electrical selector	367	197*
Printing	178	31
Radio controlled	340	825.72*
Pulse responsive	340	825.69
Signaling	181	
Toys	446	175
Responsive explosive igniters	102	211
Mines	102	427
Mines marine	102	416*
Signs X-reference collection	40	906*
Siren	116	147
Speed of sound compensation	367	902*
Telegraph sounder	178	98*
Tone arms	369	244
Electrical pickup	369	135
Mechanical pickup	369	158*
Toy	446	397*
Aerial top	446	213*
Figure	446	297*
Figure wheeled	446	270*
Musician	446	297*
Top	446	258
Air actuated	446	213*
Wheeled	446	409*
Whirling	446	215
Transmission		
Electrical telephone	379	
Mechanical telephone	181	138
Wave analysis	73	645*
Wave exhibitor	73	659
Electric wave analyzer	324	77R
Sounders		
Electromechanical bells and gongs	340	392*
Telegraphic	178	98*
Sounding		
Board for pianos	84	192*
Depth	33	713*
Compressional wave underwater	367	99*
Fathometer T M electrical	367	99*
Rods	33	721*
Soups	426	580
Souring	8	137
Agents	252	193
Soya Bean Products		
Beverage	426	598
Coating or plastic compositions containing	106	154.1
Extraction of oil	260	412.2*
Phosphatides	260	403
Proteins	530	378
Sauce	426	629*
Space Discharge Devices, Electric		
Cathode sputtering coating or forming apparatus	204	298.1
Cathode sputtering coating or forming process	204	192.1*
Chemical apparatus	204	
Chemical electric discharge	204	164*
Apparatus	422	186.21*
Circuits for gas filled tubes	315	
Circuits for vacuum tubes	328	
Drying and gas or vapor contact with solids	34	1
Electric switch, eg lamp starter switch	337	22*
Furnace pressure or vacuum	373	10
Heaters	219	200*
Heating furnace	373	
Igniters	361	247*
Lamps	313	
Lightning arresters	361	117*
Making	445	
Making gettering	445	
Medical and surgical application	128	
Metal heating arc	219	121.11*
Nuclear reactions	376	
Ozonizers	422	186.7*
Precipitators	55	101*
Preservation of foods and beverages	426	237*
Rectifier structure	313	
Repair apparatus	445	61
Repair methods	445	2
Spark plugs	123	169R
Structure	313	
Structure of arc lamps and similar devices	314	
Structure of arc lamps feeding electrode	313	357
Structure of electronic tubes	313	
Structure of gas & vapor lamps	313	567*
Structure of lightning arresters	361	117*
Structure of mercury vapor lamps	313	163*
Structure of spark gaps and arc gaps	313	325
Structure of spark plugs	123	169R
Systems	328	
Systems amplifiers	373	10
Systems arc feeding electrode	314	
Systems cathode ray tube	315	1*
Systems combined tube and circuit element	315	32*
Systems gas or vapor tube	315	
Systems miscellaneous	250	
Systems television	358	
Testing, vacuum tube	324	405*
Cathode ray tube	324	404
Treating foods and beverages	99	451
Vacuum and pressure furnace	373	
Welding arc	219	136*
Arc	373	77
Induction	373	110*
Resistance	373	140*
Space Induction Systems		
Telegraph	178	43
Telephone	379	55
Train inductive telegraphy or telephony	246	8
Transmission of electricity		
To electric motor	318	16
To vehicle	191	10
Vehicle electrically powered by magnetic induction	191	10
Space Ship	244	158R*
Control systems	244	176
Design	D12	320
With booster rocket	102	374
Spaced Wall Containers		
Bottle or jar	215	12.1*
Cabinets	312	214
Metallic receptacles	220	415*
Pitchers	222	131
Spacer and Spacing		
Article arranging on conveyors	198	434*
Article aplacing on conveyors	198	434*
Concrete reinforcement	52	677
Container wall	220	445
Dental separators	433	148
Hoist bar	294	81.1*
Nuclear fuel structure	376	438
Orthodontic	433	2*
Piling material	206	
Planting implement spacing in hill	111	94
Printing fillers	101	403
Railway		
Guard rail	238	22*
Rail joint	238	227*
Tie	238	105
Sewing machine tucking	112	146
Sheet for drying	34	6
Typewriter		
Back	400	308*
Line	400	545*
Variable	400	303*
Vehicle body top board	296	34
Wire fabric making	140	50
Spacesuit	2	2.1 A
Helmet	2	2.1 A
Refrigeration for	62	259.3
Spades (See Shovel)		
Gun mount	89	40.9
Intrenching	42	93
Spaghetti		
Cutter	83	932*
Design	D 1	126*
Molding apparatus	425	376.1*
Pasta processing	426	451
Shaping apparatus, general	425	376.1
Perforated plate	425	331*
Spanners	81	176.1*
Spar	114	89*
Torpedo boats	114	19
Spark		
Arresters	110	119*
Abrader spark guard	51	272
Fixed whirler or rotator deflector separators	55	447*
Flue jet pumps	417	156
Illuminating burners	362	380
Coils	361	268*
Gap	313	325
Manufacturing	445	7
Plugs	313	118*
Circuit element combined with	315	32*
Design	D13	127
Engine	123	169R
Making	445	7*
Tester	D10	77
Prevention dynamoelectric	310	220
In electric switch	200	144R*
Relays preventing	361	160*
Switches arc preventing	361	2*
Sparker (See Igniters)	123	146.5 R*
Internal combustion engine	123	146.5 R*
Toy	446	22*
Sparklers	102	358*
Spats	36	2R
Design	D 2	267
Spatulas	294	49*
Speaker	381	150*
With amplifier	381	120*
Speaking Aid		
Megaphone	181	177*
Public address system	381	82*
Amplifier	330	
Speaking Tube	181	18*
Design	D10	116
Spear	30	
Aerial projectile	273	416*
Design	D22	117
Handling	294	61
Harpoons	43	6
Speargun	D22	102
Special Receptacles	206	
Specific Gravity		
Testing	73	32R*
Spectafoline	546	15
Spectacles (See Eye Glasses)		
Metal frame making	29	20
Temples	351	111*
Spectrographic Analysis	356	300*
Spectrographs	356	302*
Spectroheliographs	356	302*

	Class	Subclass
Spectrometer	356	326
Cavity		
Electron resonance system	324	316*
For color film	355	38
Nuclear resonance system	324	307*
Spectrometer components	324	318*
Chemical analysis, apparatus	422	82.5
Radioactivity	250	472.1
Ultraviolet	250	372*
X ray	378	
Spectrometry	356	300*
Mass	250	281*
Spectro-optical Digitizer		
Chemical analysis, apparatus	422	82.9
Spectrophotometer	356	319
Chemical analysis, apparatus	422	82.9
Ultraviolet	250	428*
X ray	378	
Spectroscope	356	300
Spectrum (See Spectrometer)		
Specula	128	3*
Design	D24	18
Speech (See Sound)		
Amplifier	330	
Controlled	178	31
In typewriter	178	31
Exhibiting by visual means	73	659
Measuring by electrical means	73	570*
Wave shape comparing	324	77R
Making artificially	381	51*
Teaching	434	185
Voice reflector for therapy	D24	35
Waves		
Analysis	324	77R
Speed		
Measuring device, calibrating	73	5
Motor (See type of motor controlled)		
Recording	346	
A C motor	318	700*
Automatic musical instruments	84	128*
Centrifugal governor	346	73*
Clutches	192	146
D C motor	388	800*
Electric railway vehicles	104	300
Induction motor	318	727*
Internal combustion engines	123	319*
Lathe headstock gearing	82	143*
Load hoist	254	267
Machine elements and mechanisms	74	
Belt & pulley drive system	474	
Metalworking machine	29	64
Motor vehicles	180	170*
Pumps	417	1*
Railway trains	246	182R
Speed indicator or alarm combined	346	18
Spinning twisting twining textile apparatus	57	93*
Treating processes material speed control	34	25
Speed control	34	52
Warp tension control textiles	28	185*
Watches	368	186
Responsive or controlled		
Automobile mounted systems	307	10.1
Brakes	188	180*
Centrifugal switches	200	80R
Devices	73	488*
Drive release and brake	192	147
Drop of elevator sans manual control	186	23
Electrical signal processing systems	361	236*
Electrical systems	361	236*
Electrical systems alarms	340	670*
Elevator brakes and catches	187	89*
Elevator operation	187	38*
Engine to throttle control	60	906*
Flexible shaft couplings	464	1*
Fluid distribution	303	91*
Gearing	74	336R*
Limit stops	192	140
Machine elements trips	74	3
Measuring & testing speed	73	488*
Mechanical movements	74	114
Motor controlling arc lamp	314	62
Motor vehicle	180	170*
Planetary gearing (See notes thereunder)	475	254*
Predetermined speed indicator	116	57
Railway speed control systems	246	182R
Railway train brakes	188	126
Servomotor	91	458
Servomotor follow-up devices	91	366
Shutters motion picture apparatus	352	209
Valve actuation	137	47*
Vehicle signals	116	37*
Electric, external	340	466
Electric, internal	340	441
Vehicle speed limit alarms	116	74
Vehicle speed limit indicator	116	62.3
Vehicle speed limit signals	116	57
Wave systems to determine velocity	342	104
Synchronizing (See synchronizing)		
Testing electric	324	160*
Timing electrically	324	178*
Timing electrically	324	179
Timing electrically	324	180
Speed Indication		
Electrical indicators	324	160*
Alarms	340	670*
Limit indicators	116	62.3
Alarms	116	74
Vehicle operated	116	57
Speed of sound compensation	367	902*
Speedometer	73	488*
Aerial optical	356	27*
Calibrating	73	2
Design	D10	98
Odometers	235	95R*
Power take off	74	12
Time interval measurement	368	89*
Electrical means	324	78R*
Electrical means	324	179
Electrical means	324	180
Speed checker	368	2
Speedometer (See Speed Indication)		
Design	D10	98
Spelling, Teaching	434	167*
Spelter (See Zinc)		
Spermaceti Purification	260	420*
Spermacides & Contraceptives	424	DIG. 14
Sphygmoscope, Sphygmograph and Sphygmomanometer	128	677*
Spices	426	638*
Condiment dispenser	D 7	590*
Plural cell	D 7	597
Shaker	D 7	591*
Spigot (See Valve)		
Spike	411	439*
Design	D 8	391
Making	10	56*
Pullers	254	18*
Railroad tie		
Drivers	104	17.1
Railway	238	366*
Ship implement	114	221R
Shoe cleat or	D 2	317
Spillway	405	108
Spindle		
Article holding bracket	248	309.2
Axle	301	131
Rotary	301	126
Bearings	384	
Lathe headstock	82	148
Combination lock	70	329
Cotton picker	56	50
Bobbin cone wind	242	35
Latch	292	358
Catches	292	359
Lathe headstock	82	148
Saw handle	30	521*
Ship	114	59
Toy top	446	264
Spinning		
Can head seaming	413	27*
Filament forming (See wire)		
Apparatus	425	66
Apparatus	425	67*
Apparatus	425	76*
Apparatus	425	382.2
Processes	264	165*
Solutions	106	165*
Fishing reel	242	224*
Metal	72	82*
Paper	493	395
Textile	57	
Machine forging dies	72	343*
Toys	446	236*
Tube end	72	80*
Closed	228	2
Spinning Reel	D22	141
Spintheriscope	250	458.1
Spiral		
Abrading scrolls	51	209S
Cigar wrapping	131	59
Conveyers and gatherers		
Chute	193	12*
Chute stratifier	209	434
Cooking filled receptacle railway	99	365
Cornstalk harvester	56	95
Potato diggers	171	57
Power driven conveyor	198	778
Electrical conductor armor	174	108*
Fasteners and chucks		
Chuck scroll actuated	279	114*
Hat fastener	132	62
Spiral fastener	24	112
Feed for sewing machine	112	121.18
Fixed cutter machine	83	425
Gearing	74	424.5*
Harrow	172	532*
Measurement, radius &	33	1SP
Metal coiling by spiral die	72	141
Muffler baffle	181	279*
Nail shank	411	487*
Nail shank making	10	46
Pipe or tube article		
Flexible spirally wound	138	129*
Spiral seam	138	154
Rotary plow	172	532
Sifters	209	362
Signal bell spring	116	168
Spacer for coaxial cable	174	29
Strip cutting		
Die cutting	83	
Toy propellers	446	43
Toy top spinner	446	241
Tube making and welding	228	145
Apparatus	228	17.7
Paper tube winding	493	299
Sheet metal spiral seam	72	49
Wire spiral stud making	140	92
Wood turning spiral grooving	142	23*
Spirit Level	33	377*
Design	D10	69
Illuminator	33	348.2
Spirometer	128	725
Spits Cooking	99	419*
Spittoon	4	258*
Cookstove attachment	126	32
Design	D34	2
Flushing	4	262*
Dental	4	263*
Pocket	4	259
Splash Board		
Cabinet with	312	229
Splash Control Element Mold	249	206
Splice (See Joints)		
Adhering seam making		
Apparatus	156	502*
Process, without overlap	156	304.1
Bars rail type	238	243*
Insulated	238	159*
Belt	24	38
Drive belt combined	474	253*
Electric conductor	156	49
Electric trolley	191	44.1
Film splicer	83	948*
Design	D 8	70.1
Support combined	191	44
Keys and locks rail type	238	250
Angle chair	238	198*
Rail section	238	226
Web key	238	181
Sprocket chains	474	218
Twisted textile strand	57	202
Twisting and spinning		
Implements	57	23
Machines	57	28
Processes	57	22
Web	242	58.1*
Spline	403	359
Gear and	33	DIG. 14
Match	44	511*
Coating composition	149	3*
Making	144	66
Panel connector	52	586
Surgical	128	87R*
Splint and Splint Making		
Split Preventer	411	912*

	Class	Subclass
Building component	52	514
Split Second Watches	368	102+
Stop watches	368	113+
Splitting		
Atomic fission reactions	376	
Carcass	17	23
Corncob	225	
Leather	69	9+
Stone	125	23.1+
Tool blank	76	11
Tube and sheath	30	90.1+
Well tubing	166	55.2
Wood	144	193R+
Bundling combined	144	192
Explosive combined	89	1.14
Spoilers for Aircraft	244	213+
Spoke		
Land vehicle wheel	301	5R+
Making and assembling		
Land wheel		
Compressed spoke type	29	894.34+
Tensioned spoke type	29	894.33+
Metal wheel assembling	157	1.5
Securing by forging	157	1.55
Tenon turning	144	206
Wood spoke assembling	157	
Wood tenoning and sawing	144	18
Pulley	474	195+
Railway wheel	295	25+
Spokeshaves	30	281
Sponge and Sponging		
Container	206	209
Cups	118	270
Holder	15	244.1+
Household cleaning tool	D32	35
Implement coating material combined	401	196+
Mop	D32	40+
Pocketed to contain soap	401	200
Resilient tire filler	152	313
Rubber	521	50+
With fabric cover or backing	15	244.3
Spontaneous Combustion (See Explosion Control; Fire, Extinguishing; Ventilating)		
Spool	242	118
Cabinet		
Dispensing	221	
Stacked article	312	45
Container for flanged spool	206	398
Cutlery with	30	124
Holders	242	134+
Tape spool	D19	65+
Holders for sewing	223	106+
Labelling	156	556+
Lifters	242	46
Musical stringed instrument	84	303
Packages of spools	206	389+
Rack	242	134+
Ribbon and film	242	71.8+
Spool winders	242	16+
Stand for sewing item	D 3	23+
Typewriter ribbon	400	242+
Valve	137	625.34+
Wood making machine	144	14
Wound with strand material	242	159+
X-art collection	493	954*
Spoolers	242	16+
Spoon	30	324+
Agitating or beating	366	343
Cutlery combined		
Forks	30	150
Knives	30	149
Knives and forks	30	147
Design	D 7	653+
Fluid conductor combined	30	141
Making		
Blanks and processes	76	105
Dies	72	470+
Measuring	73	426+
Design	D10	46.2
Pierced bowls	D 7	647
Sport Equipment (See Type)		
Board games	273	259
Chance controlled	273	244+
Card or title games	273	298
Protective hand covering	D29	20+
Shoe, making	12	142P
Sports, Teaching	434	247+
Spot		
Bowling	273	52
Inserting in bottle cap		
Metal cap making combined	413	8+
Apparatus	413	56+
Welding	219	86.1+
Spotlight	362	257+
Bulb	313	
Flashlight hand	362	157+
Photographic design	D26	61+
Supports	362	382+
Surgical or dental	362	804*
Spotter		
Bowling	273	46
Spotting		
Apparel trimming, e. g. chenille	223	45
Board	68	240
Spout		
Antidrip	222	571
Bucket		
Sap	47	51+
Turpentine and rubber	47	11
Dispensing	222	566+
Molten metal	222	591+
Food or beverage dispenser with	D 7	312+
Track sander cutoff	291	31
Water distributing	137	561R+
Sprag	188	6
Spray		
Coolers for liquids and gases	261	
Gun	D23	213+
Tubes		
For spray coolers	261	115+
Sprayer and Spraying	239	
Animal husbandry		
Antivermin treatment	119	159
Restraining device	119	112
Boiler feed heater	122	436
To steam space	122	438
Cement	366	10+
Process	366	3+
Chute combined	193	11
Coating machine	118	300+
Coating process	427	421+
Concentrating evaporator		
Apparatus	159	3+
Process	159	48.1
Design, spray gun	D23	213+
Distillation		
Apparatus	202	236
Mineral oil process	208	359
Process	203	90
Fuel dispersed in furnace	431	159
Gas and liquid contact device	261	115+
Porous mass	261	98
Refrigeration combined	62	304+
Automatic	62	171
Refrigeration combined process	62	121
Rotating impeller	261	89+
Rotating impeller hollow shaft	261	88
Wet baffle	261	111
Liquid freezer	62	347
Process	62	74
Machinery	D15	13
Material diffusing from aircraft	244	136
Metal spraying	29	DIG. 39
Milk dehydration	426	471+
Mineral oil distillation	196	128
Mobile orchard type	239	77+
Nozzles	239	589+
Flow regulating or modifying	239	533.1+
Powder	239	
Sandblast	51	428+
Shot blast	72	53
Shower cage	4	601+
Steam iron combined	38	77.5
Spreader and Spreading		
Animal training leg	54	72
Coating material combined	401	
Cultivator beam	172	645+
Fabric		
Bed bottom reinforcers	5	228
Buttonhole sewing machine	112	74
Frame for sheets	38	102+
Hammock	5	123
Making of wire strand twisting	140	33
Sewing machine loop	112	187
Sheet ironing	38	143
Web running lengths	26	87+
Biaxial	26	72+
Hand-held agricultural type	D 8	2
Horseshoe hoof	168	6+
Ladder propped	182	176
Leaf spring tool	81	3.7
Leather	69	
Material (See broadcasting; scattering)	239	650+
Bag filling hopper	53	570
Charge transported to, from, or within furnace	414	193
Discharging	414	209+
Plural successive driven devices	414	174+
Furnace fuel feeder	110	111+
Glass tube reshaping	65	283
Hand rake with	56	400.5+
Insecticide composition having	424	
Peach stoner tray	99	547
Plastic film molding device	425	461
Plastic film molding method	264	212+
Sifting feeding	209	254
Mobile orchard type	239	77+
Nail point locking	411	359
Piston ring	29	222+
Road material distributing	404	101
Slit opening and filling	29	270+
Store service	186	13
Tire		
Casing spreaders	254	50.1+
Holder	81	15.3
Rim with	152	400+
Wheel assembling	157	
Spring	267	
Actuated or controlled		
Bottle tube type valve	215	315
Car platform trapdoors	105	434
Check valve	137	511+
Clothes wringer pressure mechanisms	68	256+
Cooker with pressure means	99	351
Counterbalanced pitmans	74	592
Cutting tool joints	30	268+
Dispenser agitator and biasing means	222	230
Dispenser discharge assistant or casing	222	336+
Dispenser outlet element	222	511+
Dispenser resilient wall deflector	222	214
Dispenser trap chamber cutoff	222	449
Fence wire stretcher	256	39
Gong striker	116	164
Guns and projectors	124	16+
Holder for detachable sliding blade	30	336
Interlocked blade and holder	30	338
Invalid bed head	5	78
Locking latch bolts	70	144+
Lubricator with fluid pressure follower	184	41+
Lubricator with follower	184	45.1+
Mechanical gun centrifugal type	124	7+
Mechanical gun fluid pressure	124	66+
Mechanical gun magazine	124	52+
Nonrefillable bottle valve	215	19
Oil cup cover	184	88.1+
Packings	277	138+
Pivoted handles shears	30	212
Pivoted knife blade	30	159
Project-retract fountain pen mechanisms	401	109+
Railway mail projectors	258	7
Receptacle single plane swing closure	220	334+
Regrinding reciprocating disk valve	137	243.2+
Rotary disk valve	251	180+
Rotary plug valve	251	181+
Shears with holder	30	135
Shears with intermediate pivot	30	261+
Single impulse store service	186	10+
Siphon bottle	215	5
Sofa bed assisting	5	56
Spiral spring type bell	116	168
Spring joint shears	30	234+
Stop and nonstop valve combined	251	83
Stylographic fountain pen	401	259+
Swinging door	49	386
Trolley retriever	191	91+
Trolley retriever erector release	191	88+
Trolley stands	191	68+
Upending bed counterbalance	5	164.1+
Valve parts	251	337
Yieldable pitmans	74	582
Applier and remover	29	225
Engine valve	29	215+

	Class	Subclass
Bed and chair		
Bed	5	
Chair back supports	297	285+
Chair bottoms and backs	297	455+
Mattress	5	475
Pillow having	5	439
Buffer and check		
Bed bottoms with	5	253
Closure checks	16	85+
Liquid and combined concentric	16	52+
Liquid and combined side	16	59+
Ordnance mounts	89	44.1+
Pneumatic and spring	16	66+
Railway car end	213	221+
Railway draft appliances	213	7+
Textile weaving picker	139	167+
Vehicle bumper	293	102+
Vehicle fender	293	25+
Vehicle seat	297	216
Vehicle springs with	267	195+
Vertically swinging shovel	414	720
Button clamp and fastener		
Bottle and jar closures	215	287+
Card exhibitor clip	40	658+
Closure fastener bolts	292	2+
Closure fasteners	292	
Closure knob attaching	292	353
Closure seals	292	322
Folding paired table leg	108	131+
Folding stand leg	248	188.6
Hook tag fasteners	40	667
Map holder	15	154
Paper	24	67.3+
Pivoted bottle closure	215	244+
Pivoted clasp	24	489+
Pivoted snap hook	24	599.4+
Rack series spring grip type	211	120
Railway track	238	349
Railway traction cable	104	209
Retainer	402	19+
Saw teeth latches	83	840+
Separable button	24	106+
Sliding snap hook	24	600.5+
Stopper for breakable bottle necks	215	36
Tool handle hinged with detent	403	84+
Umbrella runner	135	40+
Vehicle rein holders	280	184+
Vehicle whip sockets	280	172
Coil	267	166+
Animal draft pole supports	278	89
Bed bottoms	5	186.1+
Bells	116	168
Bobbin winding drive connection	242	46.8
Bolt to nut lock, lateral key	411	318
Bolt to nut lock, thread lock	411	262
Bolt to nut lock, thread lock and distorted nut	411	289
Bolt to nut lock, to grip thread	411	251+
Cushion tires	152	246+
Flat	267	156
Hinges multiple	16	382+
Hinges pintle	16	305
Locomotive	105	67+
Loop forming	140	103
Making	72	138+
Pivoted snap hooks	24	599.7+
Railway car planks and transoms	105	208+
Railway car spring bolster	105	197.5+
Spring wheels	152	1+
Torsional closers	16	75+
Coil spring loop forming	140	103
Coil spring untangling apparatus	198	953+
Compressor	254	10.5
Hand tool	81	486
Couplings	403	229
Shaft	464	51+
Cushion shoe heels	36	38
Cushion shoe sole	36	28
Insole	36	44
Ventilated	36	38
Cushioned railway draft devices	213	7+
Devices	267	
Bag closures	383	43
Casters	16	44
Closers	16	71+
Coat collars	2	99
Compressible rheostat	338	99+
Deformable discharge assistants	222	407
Ejector for conveyor trap dispenser	222	225
Extensible	351	126
Eyeglass bridge	351	65
Flexible	351	68
Garment supporter belt etc	2	339
Garment supporters	2	324
Handlers with spring devices	414	913*
Harrow teeth	172	705+
Hoof spreading horseshoe	168	8
Material pressure actuated dispenser outlet	222	491+
Map holders	15	154
Music instrument spring shank hammer	84	324
Pivoted tooth bar harrows	172	634+
Plural bridges	351	67
Rail seats	238	284
Railway car actuated switches	246	270R+
Railway guard rails	238	18
Railway rail splice bars	238	259
Railway switches automatic	246	314
Railway tie plates	238	302
Railway track ties	238	48
Resilient wall dispensers	222	206+
Sandals	36	7.8
Sash balances	16	197+
Sheet retainer with releasable keeper	402	60+
Shoe heel	36	38
Shoe heel making	12	31.6
Shoe soles with spring heel	36	27
Slitted diaphragm dispenser	222	490
Spring back paper binders	24	67.3
Spring heel horseshoe	168	15
Truss pads	128	119.1
Watch spring packages	206	70
Watchcase	368	311+
Wheel harrows	172	613+
Wheel substitute harrows	172	389+
Wooden crates cushioned	217	54+
Exercising devices	272	135+
Springboards	272	66
Fire escape	182	190+
Fluid	267	113+
Vehicle	267	64.11+
Guns and projectors	124	16+
Hairsprings	368	175
Hammer drive	173	119
Hinges	16	277+
Bracelets	63	8
Horseshoe	168	8
Piano pedal	84	227
Telegraph keys	178	107
Weather strips	49	480+
Jacks	379	
Joints couplings and chucks		
Flexible shaft	464	51
Packed shaft longitudinal	277	102+
Packed shaft sectional	277	138+
Packed shaft socket with follower	277	102+
Pipe coupling detent	285	305+
Railway draft	213	200+
Railway draft appliances cushioned	213	7+
Self grasping socket type chuck	278	22+
Split resilient socket	279	41R+
Spring detent socket	279	79+
Spring saw socket	279	46R+
Swivel pipe in socket	285	276+
Thill	278	52+
Trace and whiffletree	278	102+
Leaf spring spreaders	81	3.7
Machine or tool		
Bobbin winding drive connection	242	46.8
Brake operators	188	166+
Clutch operators	192	89R+
Embroidering machine fabric shifting	112	92
Expansible chamber motors		
Insect catcher	43	135
Internal resistance brakes	188	268
Music leaf turners	84	486+
Pliers crossed handle	81	417
Sawmill set works	83	724
Screw driver	81	451+
Scroll saw spring return	83	752
Typewriter bar	400	436+
Typewriter carriage	400	336+
Woodworking feed rolls	144	247
Wrenches	81	52+
Making		
Applying or removing	29	225+
Conical wire	72	138+
Forging dies	72	343+
Loop forming	140	103
Metal bending	72	135+
Processes	29	173
Processes spring head clip	29	172
Spring set saw making	76	71
Wire spring setting	140	89
Motor or drive		
Bobbin winding drive connection	242	46.8
Breech loading gun	42	5
Clock winding	368	147
Composite type motor	185	9+
Dental pluggers	433	157
Drilling machine	408	125
Expansible chamber motor rotary		
Fishing reel	242	249
Flying propeller toys	446	39+
Hairsprings	368	175+
Hammer	173	119
Handle bars	74	551.2
Locomotive	105	67+
Motor	185	37+
Pump	417	328
Railway motor support	105	139
Reels spring drum type	242	107+
Shiftable motor and gear	74	209
Spinning reel	242	226
Spring drum article holders	242	107+
Spring drum clothesline reel	242	107+
Spring mounting for	185	45+
Steam traction engine mount	180	40
Store service	186	10+
Strap actuator with return	74	136+
Tape measure drum	242	107+
Taps	446	260
Toy vehicle	446	464
Truck ladder hoisting	182	63+
Typewriter carriage	400	336+
Nut remover	29	270+
Panels for chairs and seats	267	80+
Railway		
Rail seats	238	284
Tire cushions	295	14
Setting	140	89
Spring buckle	200	408
Support	267	
Casters	16	44
Centrifugal speed responsive device	73	546+
Lamp shade on bulb	362	444
Lamp shade on chimney	362	445
Lamp shade or bowl support	362	440
Machine foot	248	615+
Machinery base	248	560+
Machinery bracket	248	674+
Machinery suspension	248	637+
Pin and open link or draft coupling	213	200+
Pipe or cable	248	560+
Sash balances	16	197+
Telescoping tube suspended	248	610+
Thill	278	81+
Vehicle motor	248	560+
Vehicle pole	278	88+
Vertically adjustable suspended	248	610
Vibration dampening	248	562+
Switch, sudden release type	200	400
Testing	73	161
Train vestibule face plate expanders	105	14
Valve		
Head	251	356
Parts	251	337
Vehicle parts	267	
Absorber combined	267	64.15+
Article holders for bicycles	224	37+
Axle skein mounting	301	136
Axle spindle mountings	301	133
Bicycle front fork etc	280	275+
Bicycle rear fork etc	280	283+
Body frame suspension	280	788
Bumper combined	293	116
Design	D12	159
Fluid	267	64.11+
Letdown taps	296	107+
Metallic spring cushion tires	152	247+
Pole supports	278	88+
Railway axle box mounting	105	218.1+
Railway car body	105	453
Railway car truck platform	105	212+
Railway spring bolster	105	197.5+

	Class	Subclass
Railway spring planks	105	208
Rocking running gear	280	112.1
Roller skate trucks	280	11.28
Runner type	280	25
Running gear	280	688+
Skates with foot supports	280	11.14
Spring wheels	152	1+
Steam traction engine mounting	180	40
Stub axle mounts	280	660+
Swinging and rocking axle	280	110
Swinging axle	280	113+
Swinging axle connections	280	125+
Thill supports	278	81+
Tires spring and pneumatic	152	156
Traction increasing lugs for wheels	301	51
Trailer draft device	280	483+
Two wheel vehicle	280	65+
Velocipede seat	297	195+
Wheeled vehicle	33	418
Watch etc hairsprings	368	175
Sprinkler	D23	214+
Sprinkling	239	
Carts	239	146+
Embedded	239	201+
Flow regulator or modifier	239	533.1+
Head fire extinguishing	169	37+
Rack combined	211	127
Showcase combined	312	115
Textile treating	68	205R+
Sprocket	474	152+
Chain	474	202+
Making	29	893
Chain	59	5+
Railway cable	104	236
Chain cable	104	237
Spud Anchor	37	73+
Spur		
Attached shoe protectors	36	74
Gearing (See gearing spur)		
Horseshoe spur fastening	168	21
Riding	54	83R
Design	D30	157
Stirrups combined with	54	49.5
Tag fasteners	40	669+
Tube		
Boiler	122	
Heat exchangers	165	42
Mineral oil distillation	196	129
Wheel traction increasing	301	43+
Sput	285	201+
Sputtering (See Cathode Sputtering)		
Sputum Cup	4	259
Spyglasses	350	537+
Square	33	474+
Combined		
Fixed straightedge	33	429
Hypotenuse	33	420
Nonpivoted straightedge sliding	33	427
Pivoted straightedge sliding	33	425
Leveling feature	33	451
Squeegee (See Wiper and Wiping)		
Cleaning device	15	245
Brush combined	15	117
Design	D32	41
Material supply combined	401	261+
Wiper combined	15	121
Squeezer		
Animal traps	43	85+
Butter worker	99	452+
Citrus fruit	99	495+
Cotton gin	19	49
Expressing	100	104+
Paste tube	222	95+
Raisin seeders	99	547+
Textile fluid treating apparatus	68	94+
Squeezing		
Liquids from solids	100	35+
Apparatus for, with drain	100	104+
Squirt		
Locomotive cab	239	174
Preventer		
Type casting integral line	199	53
Type casting separate type	199	90
Stabilizing (See Preserving)		
Aircraft		
Propellers	244	92
Weights	244	93+
Colloids	252	351+
Gyroscope	74	5.22
Mineral oil	208	351
Missiles, manned	244	75R+
Missiles, unmanned	244	3.1+
Projectiles	244	3.1+
Ships	114	121+
Space ships	244	158R+
Synthetic resin or natural rubber (See class 523, 524)		
Latex	528	935+
Stable		
Animal	119	15+
Stalls	119	27+
Stalls, design	D30	108+
Stanchions	119	147.1
Stack and Stacker (See Packing)		
Beds stacked	5	8
Bottle and jar	215	10
Calender rolls	100	162R
Dispensing	221	
Cabinet	312	42+
Rack	211	59.2+
Electrical insulator	174	137R+
Forming apparatus	414	788.1+
Coal storage type	414	133
Furnace and flue		
Draft regulator	110	159+
Feed water heater	122	439+
Marine	114	187
Masonry or concrete	52	245
Smoke stacks	110	184
Spark arrester	110	121
Hay stack shaping	414	132
Horizontally attached receptacle set	220	23.2+
Nuclear fuel components	376	433
Pneumatic	406	
Receptacles	206	501+
Special package, stacked item	206	821+
Rotary rolling contact printer	101	232+
Sheet		
Cutting combined	83	86+
Delivering	271	278+
Electrophotographic copier	355	322
Feeding	271	8.1+
Material folder	83	83+
Oscillating blade	271	264+
Stacked article support	211	49.1+
Adjusts for different sizes	414	900+
Card or sheet	211	50+
With impaling means, follower	211	54.1
With impaling means, terraced	211	57.1
With article counter	414	901+
With impaling means	211	59.1
With load-supporting fluid cushion	414	903+
With means to apply adhesive to articles	414	904+
With operational sequence control for stack pattern forming	414	902+
Stacking for dispensing	221	175+
Stacking Apparatus	414	788.1+
Stadium (See Theatre)	52	6
Construction	D25	12
Staff		
Flag	116	173+
Horological	368	324
Planting	111	97
Railway signal system	246	19
Support	248	511+
Tobacco ash receiver support	131	259
Stage (See Theater)	52	6+
Appliances	272	21+
Scenery shifting	272	22+
Illusions	272	9+
Lighting	315	312+
Motion picture set	352	88+
Set design	D25	58+
Stagger Tuned Amplifiers	330	154
Stained		
Glass mosaics	428	38+
Stainless Steel	420	8+
Austenitic	420	43
Heat treated stock	148	325+
Heat treating	148	135+
Pyrometallurgy	75	507+
Stains Paint	106	34
Dyeing only	8	402
Stair (See Ladder)	52	182+
Amusement	272	2
Design	D25	62+
Escalators	198	326+
Lighting	362	146
Mobile for boarding aircraft	D34	30
Pads and covers		
Conforming to tread nose	52	179
Rug fasteners	16	10+
Slatted	52	180
Scribers for stair curves	33	29
Static mold for making	249	14
Tread	D25	69
Stake		
Animal hitching	119	121
Posts, design	D30	154
Guided cultivator	172	24
Land vehicle body	296	43
Railway freight car	105	380+
Tent	135	118
Staking		
Hide	69	34
Watches and clocks	29	231+
Stalk and Stalk Handling		
Choppers	56	500+
Fiber liberating	19	10
Harvester		
Cornstalk type	56	51+
Woven	139	424
Stalls		
Animal	119	27+
Thermolytic distillation	202	97+
Stamp (See Branding)		
Affixers	156	
Alteration preventing or detecting	283	71
Brand burning	219	228
Brand burning	101	27
Design	D19	9+
Dispensers	83	242+
Coin controlled	194	
Hand stamp collocator	33	614+
Handles	101	405+
Holder, household type	D19	67
Imprinting or embossing stamp	D18	15+
Key, workmans time recorder	346	53
Mail cancelling	101	371
Mill	241	270+
Pad	118	264+
Plural parallel blade cutlery	30	305
Pocket receptacle	206	39+
With tearing edge	225	39+
Postage roll dispenser	D19	67+
Printed labels	283	81
Purse with holder	150	106
Racks for hand stamps	211	39
Registers	235	101
Rubber	101	368+
Endless band	101	111
Scarifiers	81	9.21
Time	346	80+
Time with automatic recording mechanism	346	80+
Vending machine for	D20	2
Stamping and Stamped Devices		
Bed bottom risers	5	206
Cigar	131	106
Cigarette package	131	283
Envelope		
Printing and stamping	493	320+
Sealing and stamping	156	
Hand	D18	14+
Metal working	29	DIG. 37
Mill	241	270+
Picture frames	40	154
Plug tobacco	131	368
Sheet metal chain	59	15
Stanchions	119	147.1
Sure stop	119	904+
Stand (See Holder, Support)	248	127
Apparel apparatus	223	120
Bag holder	248	97+
Beehive	449	26
Bicycle		
Kick stands	280	293+
Locked	70	235
Racks	211	17+
Book and music	248	441.1+
Bracket		
Alternative	248	126
Combined	248	121+
Cabinet structures	312	
Calendar	40	120
Christmas tree	248	519+
Copyholder	248	441.1+
Dental equipment	433	25+
Dish	248	128+
Flatiron	248	117.2+
Accessory combined	38	142

	Class	Subclass
Hat	211	33
Horseshoeing	168	44
Hose	248	80*
Ink (See inkwell)	248	127*
Lamp stove	126	259R*
Light	362	410*
Design	D26	142*
Lock type article supports	70	62
Machinery stands	248	676
Bracket convertible	248	645
Mirror type		
Handle	248	471
Plural mirror	350	631*
Music	248	441.1*
Nozzle	248	80*
Nursing bottle	248	105*
Paste tube	248	109
Photography		
Retouching	354	349*
Picture	248	469*
Plant	47	39*
Plural leg	248	163.1*
Power	74	16
Rack type	248	127*
Railway switch	246	393*
Interlocking	246	144*
Signal	246	476
Vehicle actuating	246	278*
Shoe	211	37
Shoe blacking	15	265*
Spool holders	242	139
Staff type	248	519*
Stand boilers	122	13.1*
Water heater type	126	361*
Stand pipe (See tank)	137	593
Spur central	122	307*
Superheater spur tube	122	475
Water tube	122	321*
Water tube coil	122	244*
Water tube flue	122	184*
Water tube loop	122	281
Stove gas burner	126	40
Stove shelf	126	333
Telephone	379	454*
Tire	211	24
Tray or receptacle	211	133
Trolley	191	66*
Type case accessory	276	44
Watch and clock	248	116
Woodworking	269	289R*
Modified for saw blade	269	83
Work (See holders, work)	269	
Dental equipment	433	49*
Remover	D 8	48
X ray type	378	193
Standard		
Batteries	429	125
Bolsters combined	280	143*
Dental engine	433	103*
Feed bag support	119	69
Piano hammer action	84	242
Plow	172	681*
Beam and tool standard connection	403	
Shovel connection	403	
Scaffold	248	127*
Sifter support	209	415
Support	248	158*
Stannate Ceramic Compositions	501	134*
Stapilizing	19	
Artificial fibers	83	913
Spinning combined	57	2
Stapling & Staple Setting		
Applying apparatus	227	
Broom making machines	300	13
Handles on shopping bags	493	926*
Labelling fabrics	156	DIG. 22
Reels	242	103
Sheet material associating combined	270	53
Folding combined	270	37*
Staple	411	457*
Insulated	174	159
Making	59	71*
Making and setting	227	82*
Puller	254	28
Stapler design	D 8	49*
Surgical stapler	227	175
Tobacco plug tagging combined	131	113*
Star	428	11
Illuminated	362	121
Ornamental lighting	362	807*
Starch and Derivatives	536	102*
Coating or plastic composition	106	210*
Alkali metal silicate	106	617
Casein	106	139
Glue or gelatine	106	130
Inks	106	25
Mold	106	38.51
Mold coating	106	38.23
Plaster of paris	106	779
Polishes	106	5
Portland cement	106	730
Prolamine	106	150
Protein miscellaneous	106	157
Confection molding apparatus	425	
Esters	536	107*
Manufacture	127	
Nitrogen containing	536	45*
Starter and Starting (See Device Associated Therewith)		
Arc	315	
Arc lamp	314	
Mercury vapor lamp	313	170*
Burner		
Buttonhole sewing machine	112	67
Door	49	276*
Engine or motor		
Electric motor	388	842*
Electric motor	318	430*
Electric motor	318	136*
Electric motor type starter	290	
Expansible chamber motor type starter	91	53
Internal combustion engine	123	179R*
Starter gearing	74	6*
Starter-generator drive	74	810.2
With planetary gearing	475	13
Strap starter	74	139*
Fan regulator	416	170R
Fluid flow	4	368*
Gate		
Race track	119	15.2
Hydrocarbon synthesis start-up procedure	585	951*
Loaded land vehicle	278	2
Vehicle operator actuated	280	151
Motor vehicle, safty belt responsive to starter circuit	190	270
Phonograph	369	243
Pump regulator	417	1*
Retort burner	431	218
Tool driving or impacting device		
Handle relative movement	173	18
Tool relative movement	173	13*
Trap door	105	435
Valve in expansible chamber motor	91	286
Statersam	114	189
Static Electricity	307	149
Anti inductive transmission line	174	32
Charges discharging	361	212
Circuit maintenance signaling	340	292
Circuit maintenance telegraphy	178	69R
Collecting with condenser	320	1
Corona prevention	174	127
Discharging	361	212
Elimination	361	212
Generators	310	309*
Grounding	174	6*
Ignition circuits	315	85
Lamp circuits	315	85
Lightning arrestors	361	117*
Lightning rods	174	2*
Metallic bleed off	428	922*
Radio	455	296*
Squelch	455	222*
Shielded cable	174	102R*
System safety	361	1*
Telephone circuits anti inductive	379	414*
Static Information Storage & Retrieval	365	
Static Structure eg Buildings	52	
Station		
Match packaging fill and cover	53	236
Power driven conveyor work	198	339.1*
Railway	104	27*
Receptacle fill and close separate	53	276*
Receptacle fill and close single	53	268*
Signal or indicator		
Automatic to cab from highway or	246	174*
Electric station selective systems	340	825.38*
Passengers	246	209
Train dispatching	246	14*
Train dispatching emergency	246	13
Vehicle station indicators	116	29
Train dispatching emergency	246	13
Stationery	D19	
Container	206	215
Design	D19	1
Envelope	D19	3*
Stator Winding of a C Machine	310	195*
Statue	428	15
Design	D11	143*
Fauna	428	16*
Stave		
Barrel	217	88
Making shaping jointing	147	
Stay		
Apparel	2	255*
Glove	2	166
Shoe	36	57
Shoe closure	36	53
Trousers	2	231*
Wire	140	91
Boiler		
Braces combined	122	493
Crown sheet combined	122	496
Bolts for steam boilers	411	379
Box (wooden)	217	69*
Paperboard box	229	198.1
Pivoted edge	24	267
Screw impeller	416	194
Stay bolts	411	379
Vehicle body irons	296	42
Curtain backstays	296	144
Wire	140	90*
Woodworking		
Stay logs	144	177*
Stay logs veneer lathes	144	214
Staying		
Box making	493	89
Marine vessels	114	83
Wire fabric	140	10*
Portable machines	140	18*
Steady Rests		
Abrading	51	238R
Turning	82	165
Steam		
Attachments to ashpans	110	171
Bath	D24	37
Boiler (See boiler)		
Design	D23	318*
Nuclear reactor type	376	370
Cleaning of particulate bed filter	210	274*
Combustion		
Engines utilizing	123	25P
Fluid fuel burners utilizing	431	163
Fluid fuel burners utilizing	431	210*
Solid fuel burners utilizing	110	
Condensers	165	110
Distilling with	203	
Dome		
Boilers having	122	
Steam separators	122	492
Structure	122	508
Superheater	122	486
Engine and motor (See motor)		
Design	D15	2
Expansible chamber type	91	
Locomotive structure combined	105	37*
Motor vehicle		
Steam tractive type	180	36*
Traction motor	180	303*
Recording indicator	346	3*
Safety valves	137	455*
Second type combined	60	698*
Turbines	415	
Vehicle heating combined	237	12.1*
Fumigators	43	130
Gas & liquid contact apparatus	261	DIG. 76
Degasifying liquid	55	198
Degasifying liquid process	55	54
Denuding solids	55	59*
Gas separation	55	263
Generator and boiler	122	
Autothermic kiln combined	202	94
Cookstove combined	126	5
Hot air furnace combined	126	101
Incinerators having	110	234
Still and feed water heater	202	167
Still and stand boiler	202	166
Thermolytic retort combined	202	106
Heating by		
Boilers	122	31.1*

	Class	Subclass
Cooking ovens	126	20
Direct application to food	126	369
Driers	34	
Feed water	122	412+
Flatirons	38	85
Heaters condensers	261	DIG. 1
Heating systems	237	
Open pan concentrators	159	36+
Power plant and water heater	60	642+
Power plant and water heater	60	669
Tables	126	33
Textile ironers	38	
Track sanders	291	21
Vessels	126	377+
Injector		
Boiler cleaner	122	379+
Furnace draft regulator	110	147+
Lubricators	184	55.1+
Iron	38	77.1+
Pumps	417	151+
Liquid purification	210	198.1+
Rollers	180	20
Sterilizing methods	422	26+
Superheater	122	479.1+
Traps	137	171+
Treatment	122	459+
Power plant exhaust	60	685+
Combustion device feed in	60	683
Serially connected motors	60	679+
Power plant superheating	60	662
Turbine (See turbine)		
Vacuum pump design	D15	7+
Valve design	D23	233+
Whistles	116	137R+
Steamer Bag or Trunk	D 3	70
Steaming and Steamer		
Apparel	223	51
Dress coat or skirt	223	70
Stockings	223	76
Trousers or sleeve	223	73
Food	426	506+
Boilers	99	410+
Infusers	99	293+
Miscellaneous food apparatus	126	369+
Sterilizing apparatus	99	467+
Grain	426	507+
Apparatus	99	467+
Hair, beauty parlor equipment	D28	12+
Solid material comminutors	241	1
Apparatus	241	38+
Cereal processes	241	12
Miscellaneous processes	241	15+
Whole seed processes	241	8
Sterilizing and preserving	422	27+
Wood treatment	118	50
Textile apparatus	68	5R+
Implements	68	222
Textile processes	8	149.3
Tobacco	131	300+
Wood bending	144	271
Stearic Acid	260	413+
Steel	420	8+
Austenitic	420	8+
Butchers	76	84
Composite casting	164	91+
Heat treatment	148	134+
Making	266	200+
Pyrometallurgy	75	507+
Stainless	420	8+
Heat treated stock	148	325+
Heat treating	148	135+
Wool making	29	4.51+
Steeping Starch	127	68
Steeple	52	82
Design	D25	35+
Steering		
Aircraft	244	50
Controls	244	75R+
Propulsion	244	51+
Automatically controlled		
Aeronautic	244	175+
Drop bombs	102	384
Ship	114	144R+
Torpedo	114	23+
By articulated movement	280	442+
Semitrailer	280	426
By driving	475	18+
With motor control	74	881
Collapsible steering post	280	777
Control lever and linkage systems		
Control and steering combined	74	484R+
Handle bars	74	551.1+
Handwheel	74	552+
Steering posts	74	492+
Electric	318	489
Five or more wheels	180	23+
Illuminator control combined	362	37+
Lights for steering switches	362	36
Land vehicle		
Hand	280	47.11
Occupant propelled with steering	280	200+
Occupant steered	280	80.1+
Lock and switch combined	70	252
Marine		
Centerboards	114	128
Chain propeller	440	95
Crank paddle	440	26
Jet	440	38
Oscillating propeller	440	13
Paddle wheel	440	90
Portable propeller	440	53
Reciprocating propeller	440	13
Screw propeller	440	53
Steering mechanism	114	144R+
Torpedoes	114	23+
Towing	114	242+
Motor actuated	244	175+
Motor vehicle	180	79+
By differential traction	180	6.2
Endless track	180	6.7
Caterpillar type	180	9.44+
Five or more wheels	180	22+
Fluid power	180	132
Four wheels driven, articulated frame	180	235
Gear	180	79+
Shaft	180	78
Steerable, driven wheel	180	252
Five or more wheels	180	23
Four wheels driven, all steerable	180	234+
Motor-carrying attachment	180	12+
Steam tractive vehicle	180	37+
Three wheels	180	211+
Two wheels	180	223+
Two wheels, rotary element driven wheel	180	222
Using terrestrial guide	180	131
Walking attendant	180	19.1+
Plows and cultivators		
Automatic	172	2+
By walking attendant	172	669+
Lister furrow guided	172	26
Tree or stake guided	172	24
Remote control		
By radio	340	825.72+
Pulse responsive	340	825.69
Electric steering motor	318	
Torpedo	114	21.3
Self steering wheeled toys	446	441
Sled	280	16
Flexible runner	280	21.1+
Wheel	74	552+
Cover or grip	74	558
Lock	70	211
Position indicator	116	31
Windmill	416	9
Stains	215	235+
Metallic	220	334+
Stem		
Flower		
False stem	47	55
Key	70	402+
Extensible	70	397
Foldable	70	393
Plural	70	401
Medicators	604	309
Smoking pipe	131	227+
Absorber type	131	204
Cap and tool	152	431
Cleaners	131	245
Valve		
Coaxial	137	637.2
Detachable actuator	251	128
Inflation type	137	223+
Stop combined	251	284+
Tire combined	152	429+
Watch		
Fasteners	368	307
Winding	368	216
Winding and setting	368	190+
Stemming		
Fruit	99	637+
Tobacco	131	313+
Stemware Container	206	426
Stencil and Stenciling	33	563+
Abroding resist	51	262R
Utilization	51	310+
Addressing machine	101	48+
Blank making by coating	427	143
Brush	D 4	135
Design	D19	40
Lettering	D19	40
Nonuniform coating by stenciling	427	256+
Plate	101	112
Printing devices	101	114+
Photo process making	430	308
Toilet or make up	132	319
X-art collection	425	811+
X-art collection	493	953+
Stenographic		
Copyholder (See copyholder)		
Stenograph	D18	20
Telegraphic system	178	21
Typewriter	400	91+
Stenter (See Tenter)		
Step		
Brake vehicle step operator	188	108
Cabinet with	312	235.1
Climbing vehicles		
Wheeled	280	29
Escalator	198	326+
Ladder	182	228
Detachable	182	120+
Land vehicle	280	163+
Design	D12	203
Endgate convertible	296	62
Mast	114	93
Passenger recorder	346	40
Rail detachable	238	140
Railway car	105	443+
Gates combined	105	437+
Trap door combined	105	430+
Rotary crane	212	253
Step plate for vehicle	D12	203
Stilt	272	70.2+
Tread (See --; ladder; stair)		
Lighting vehicle step	362	76
Rail	238	136
Sleeping car	105	326
Wall attached	182	90+
Window scaffold combined	182	54
Step-by-step Propulsion	280	1.181
Stepladder		
Convertible to chair or seat	182	33+
Propped	182	165+
Pivoted platform	182	124+
Stepped Building	52	182+
Stepped Shelves	206	45
Stepper		
Land vehicle	305	1+
Motor vehicle	180	8.1+
Runner supported, shuffling	180	187
Simulating vehicle	280	1.181+
Stereocomparagraphs (See Photogrammetry)		
Stereograph (See Stereoscopy)	350	130
Stereophonic	379	101+
Sound transmission	379	90+
Stereopticon	84	24+
Lantern slide mount	40	159.2
Stereoscope	D16	222
Stereoscopic photography	354	112+
Viewer	350	133
Stereoscopy		
Anaglyphs	350	130+
Camera still	354	112+
Motion pictures	352	57+
Projector	353	7
Stereograph	350	130+
Television	358	88+
Vectograph T M	350	396
Viewers	350	133+
X ray	378	41
Stereotaxic Devices	606	130
Stereotype		
Casting	164	2+
Finishing	29	21
Mold and trimmer	164	140+
Planing	409	309
Plates	101	368+
Sterile Body Treatment Tool Package	206	210
Sterilizer	D24	9
Telephone	379	452

	Class	Subclass
Sterilizing (See Heat)	422	
Apparatus for treating air	422	120+
Electrical	204	186+
Apparatus	204	302+
Electrolytic	204	130+
Foods	426	521+
Apparatus	99	467+
Gas separator combined	55	279
Heating gathered soil	47	1.42
Ray energy	250	455.1
Fluent material	250	428+
Xray	378	64+
Tobacco	131	290
Electrical or radiant energy	131	299
Water	210	
Steroids	552	502+
Glucosidal	536	5+
Heterocyclic nucleus ctg	540	2+
Sterols	552	540+
Stethoscope		
Acoustic type	181	126+
Design	D24	20
Electric type	381	67
Stibonium	556	64+
Stick		
Candy design	D 1	127
Candy stick per se	426	294
Cane or umbrella type	135	65+
Design	D 3	5+
Confections	426	134+
Manufacturing	425	110+
Edible stick or strip form	D 1	
Handler	294	87.11
Inedible holder for food	D 1	105
Inserter	227	
Laminating	156	
Laundry	294	23.5
Loom picker	139	157
Match	44	511+
Meat supporting	17	44.4
Mountain climbing	272	70
Skaters	280	826
Skein or hank supporting for washing	68	147+
Trickler and sprinkler	68	206
Tobacco supporting	294	5.5
Typesetting	276	38+
Stickpin	D11	47
Hat pin	D11	207
Stiffened Fabrics		
Coated or impregnated	428	245+
Stiffener		
Apparel	2	255+
Collar etc making	223	4
Making	223	27
Shoe counter	36	68
Shoe shanks	36	76R
Shoe toe and heel type machines	12	61R+
Shoe upper metallic seam	36	58
Railway rail joint		
Base plate	238	213
Chair base	238	189
Stills (See Distillation)	202	
Chemical apparatus combined	422	189+
Mineral oils	196	98+
Refrigeration system combined	62	
Stilts	272	70.1+
Body attached	623	28+
Ceramic	432	258+
Design	D21	72
Stippling		
Metal forging	72	76
Processes	427	256+
Roll	29	110+
Stirling Cycle	60	517+
Refrigeration	62	6
Stirrer (See Agitator)	366	343
Chain-type	366	607+
Dispensing		
Discharge assistant combined	222	226+
Discharge assistant type	222	251+
Jarring or vibrating	222	196+
Stationary	222	459
Trap chamber type discharge assistant	222	216+
Drier stationary receptacle	34	179+
Gas agitation	222	195
Heating etc gas generator fuel	48	85.2
Heating furnaces with	432	139+
Hops	366	343
Liquid purification		
Centrifugal filter rotary	210	380.1+
Loose material filter cleaning	210	269+
Mineral oil vaporizing process	208	146
Smoking devices with	131	184.1
Tedder type	56	370+
Stirrup		
Connection or joint	403	232.1
Harness	54	47+
Design	D30	142
Railway coupling	213	199
Saddle	54	47+
Textile drawing pressure device	19	266
Stitching (See Sewing)		
Blind stitch guides	112	140
Blind stitch methods and seams	112	267.1+
Brushes wirebound and	15	189
Embroidering machines	112	78+
Hemstitching	112	81+
Horizontal needle stitch forming	112	93+
Knitting textiles	66	
Leather sewing	112	28+
Sewing machine mechanism	112	154+
Sheet material associating and	270	53
Folding combined	270	37+
Shoe sole		
Hemp sole	112	121.21
Imitation stitch	12	32
Leather sewing	112	28+
Removers	12	39.3
Stitch separating and indenting	12	32+
Stitched article	36	18+
Stapling	227	
Stitch control	112	121.13
Stitch marking	112	121.25
Textile processes with	28	140+
Trimmers combined	112	122.1
Stock (See Blanks)		
Anchors	114	301
Animal husbandry	119	
Animal restraining	119	98
Die	408	120+
Firearm	42	71.1+
Lathe headstocks	82	142+
Lathe tailstocks	82	148
Live care and handling	119	
Railroad sprinkler stock alarm	239	173
Time controlled feeder	119	51.11
Vehicle body	296	12+
Magnetic	148	300+
Material	428	
Label and tag indicators	283	81
Radiation barrier	250	505.1
Treated metal	148	400+
Metal-to-metal laminate	428	615+
Milling machine tailstocks	409	242
Quotation		
Changeable exhibitor	40	446+
Electric	340	825.26+
Indicator type	116	200+
Projector type	353	46+
Telegraph bulletin	178	24
Telegraph printing	178	23R+
Telegraph ticker tape	178	34+
Railway rolling	105	
Toy	446	467
Sample and		
Cabinet compartment	312	234
Showcase compartments	312	118+
Tray	206	557+
Treatment of paper	162	1+
Woodworking bit	81	28+
Stocking (See Hose)	2	239+
Bandage type	128	165
Cap	D 2	249
Darning	66	2
Design appliances	D 3	26
Forms	223	75+
Putting on or removing	223	112
Hose	D 2	329
Knitting	66	178R+
Design	D 2	329+
Pantyhose	2	409
Pressing or molding	223	60
Protectors (See protection)	2	61
Gaiters and leggings	36	2R
Gaiters and leggings design	D 2	267
Sewing		
Cup type feeder	112	18
Supporters	2	300+
Design	D 2	625+
Wear sole combined	36	9R
Stogies	131	360+
Stoker (See Feeder, Fuel)		
Design	D23	396
Furnace	241	600*
Furnace charger	414	147+
Locomotive blower type	110	105.5+
Locomotive coal crushers	241	276
Progressive feed through combustion chamber	110	267+
Stole, Apparel Design	D 2	179+
Stoma Receptacle	604	332+
Stone		
Artificial	106	600+
Inorganic settable ingredient	106	638+
Compositions impregnating	106	12
Fences	256	19
Gatherer	171	63+
Grinding processes	51	283R
Jewelry use	D11	89+
Precious changing color by radiation	378	38+
Printing surfaces	101	453+
Remover	37	2R
Working	125	
Design	D99	17+
In situ	299	
Stoners for Fruits etc	99	547+
Stool	108	
Contoured	297	
Design	D 6	349+
Folding	108	115+
Kneeling or scrubbing	182	230
Milking	297	175+
Padded	297	461
Piano duet	297	232+
Planar surface	108	
Stop		
Accordian	84	376R
Aircraft		
Barrier type	244	110R
Animal	210	131
Backstop bowling	273	53
Car	104	249+
Door	16	49+
Elevator landing	187	32+
Hinge	16	374+
Ladder	182	209+
Lever	74	526
Light	340	907+
Brake operated switch	200	61.67
Pressure operated switch	200	81R+
Wiring system	315	80
Organ	84	85
Shear	30	271
Target projectile stop combined	273	404
Valve	251	284+
Watches	368	101+
Wick	431	301
Wind instrument	84	369+
Zipper end	24	436+
Stop Mechanism		
Fabric and cord		
Bobbin cone wind	242	28+
Bobbin winding	242	36+
Cloth finishing cutting	26	10R+
Cloth fulling stopping	26	24
Cordage winding	242	49
Fabric measuring	33	740+
Fabric reeling	242	57
Nuclear reaction control	376	207
Nuclear reaction control	376	227
Printing bed and cylinder	101	275+
Printing rotary press stack	101	232+
Sewing machine	112	271+
Bobbin winding	242	22
Buttonhole	112	67
Embroidering	112	87
Sheet associating and folding	270	46+
Textile braiding netting and lace making	87	18+
Textile covering	57	19
Textile fiber preparation	19	
Textile knitting	66	157+
Textile spinning and twisting	57	78+
Textile twisting by couple	57	61
Textile weaving	139	336
Warp activated	139	349
Weft activated	139	370.1
Thread stretching with stopping	28	242
Warp preparing stopping	28	186+
Machine		
Article elevator	414	674

	Class	Subclass
Brakes	188	
Cable drum control	254	267*
Drill feed	408	5
Drying automatic control	34	55
Elevator	187	28*
Fan regulator	416	170R
Hoist traversing cable	212	86*
Lathe carriage	82	132*
Metal working	72	1*
Motor vehicle safety	180	271*
Planer tool feed	409	326*
Power driven conveyors	198	832*
Power stop control	192	116.5*
Pump regulator	417	1*
Punching machine shaft drive	83	58*
Punching machine shaft drive	83	69
Punching machine shaft drive	83	203*
Register control	235	132R
Rotary crane	212	149*
Telegraph code recorder	178	95
Tool turret carriage	29	65
Type casting	199	52*
Type distributing	199	43
Typewriter carriage	400	298*
Typewriter case shifts	400	277*
Typewriter line spacing	400	547*
Typewriter tabulator	400	294*
Windmill	416	14
Wire feeding for working	72	461
Stop Watches	368	101
Stopcock Boxes	220	3.2*
Stopper		
Bath and sink	4	286
Bottle and jar	215	355*
Breakable neck	215	33*
Design	D 9	439
Closure for metal receptacle	220	307
Flexible bag	383	96
Flue	126	319
Ingot or pig molds	249	204
Ordnance	89	30
Ship or vessel		
Cable	114	199*
Hawse pipe	114	180
Leak	114	227*
Port	114	174*
With measuring devices	222	424.5*
Tiltable	222	454*
Stopwatch	D10	30
Storage		
Battery	429	
Charging and discharging	320	2*
Connections	439	754*
Electrolyte	429	189*
Half lead	429	
Lead	429	
Plates and grids	429	209*
Building & devices (See garage;silo)	52	
Ballast storage for aircraft	244	94
Bed with stowage	5	503
Bin with power driven conveyor	198	550.1
Cordage	242	47.5
Crib with stowage	5	96
Fire escapes	182	82*
Food storage receptacle	99	467*
Magazine for label pasting	156	
Material handling	414	589
Positioning material for building erection or repair	414	10*
Parachute storage	244	147*
Photographic plate holder	354	174*
Portable storage & means for erecting	414	919*
Ramp	52	175
Storage provision on passenger car	105	334*
Table leaf	108	86*
Table leaf terraced	108	93
Vehicle top	296	140*
Ventilation of storage structure	98	52*
X ray film holders	378	167
Cryogen	62	45.1*
Floating vessel	114	256
Hydrogen, alloys for	420	900*
Radio active waste material	252	633
Submerged vessel	114	257
Tank	D23	202
Underground fluid	405	53*
Store Service	186	
Trolley type ladders	182	36*
Using punch cards	186	56
Storefront Design	D25	59
Stores	52	28*
Bay windows	52	201
Self service	52	33
Show window panel	52	777*
Show window panel	52	764*
Toy	446	476
Storm Fronts		
Railway passenger cars	105	353
Vehicle body	296	77.1*
Window	52	202
Screen combination	160	90*
Storm Windows	49	61*
Stove	126	
Absorber coating	126	901*
Air preheating	266	138*
Dampers	126	285R*
Automatic	236	45
Combined with furnace features	110	163
Design	D 7	339*
Handle or knob	D 8	300*
Heating		
Electric	392	418*
Illumination	362	92*
Implements	294	9*
Compound	7	109*
Polish	106	3*
Still combined	202	165
Ventilators	D23	371*
Working fluid compositions	126	900*
Stovepipe	126	307R*
Design	D23	394
Elbow bending	72	307
Hood combined	126	301*
Thimbles	126	314*
Water heaters	126	364*
Straight Jackets	128	869*
Straight Line Motions	74	103
Straightedge	33	403*
Design	D10	61*
Leveling	33	341*
Rod joint	403	
Tearing or breaking	225	91
Straightening Devices		
Decurling coated flap of envelope	493	395*
Grain harvester	56	473
Metal		
Automobile frame	72	705
Leveler	72	160*
Stretcher	72	302
Paper web	162	270*
Shoe sole	12	120.5
Tobacco treatment	131	324*
Stemming	131	315*
Trouser leg	2	233
Wire	140	147
Cutting combined	140	139*
Strain		
Connector electrical	439	296*
Gauge	33	DIG. 13
Relief		
Pipe joint	285	114*
Reliever electrical cord terminal	439	449*
Strainer (See Filter; Screen; Sifter)		
Baths closets etc	4	286*
Sinks	4	652
Concentrating evaporator	159	42
Dispenser combined	222	189
Dispensing type sprinkler etc	222	565
Eaves, troughs	52	11
Kitchen utensil	D 7	667
Liquid separation	210	348*
Detachable	210	473*
Faucet attached	210	449
Mold for metal having	164	358
Paper stuff	210	
Press	100	130
Separating yeasts ferments etc	435	287*
Separatory stills	202	178
Sewer inlet	210	163*
Sewerage trap	210	435*
Support	248	94
Textile fluid treating apparatus	68	
Vegetable etc comminutor type	241	
Well casing	166	227*
Strand (See Filament; Wire)		
Advancing material of indeterminate length	226	
Brakes	188	65.1*
Drying apparatus	34	148*
Drying processes		
Diverse	34	18
Gas contact	34	23*
Heat	34	41
Vacuum or pressure	34	16
Feeder	226	
Finishing apparatus	28	217*
Fire escape	182	189*
Floor or wall attached	182	100
Joining (See joints)		
Electric conductor	156	49
Rope splices	57	202
Rope splicing devices	57	22*
Tying	289	
Joint packing	277	227*
Laminating	156	166
Making	28	217*
Braiding	87	
Casting	164	418*
Knitting	66	3*
Sliver assembling	19	157*
Spinning or twisting	57	
Waxed end	57	20
Package	206	389*
Wound	242	159*
Packaging	28	289*
Placing or cable hauling	254	134.3 R*
Structure		
Barbed wire	256	6*
Conductors	174	126.1*
Conductors insulated	174	110R*
Conductors sheathed	174	102R*
Fence wire	256	46
Textile	428	364*
Textile braided	87	8*
Textile twisted	57	200*
Tearing or breaking	225	
Tire bead grommets	245	1.5
Winding & reeling	242	
Strangler		
Bridle	54	15
Strap		
Animal shoe fastening	168	22
Antiskid for wheels	152	221*
Apparel supporting	2	338*
Spaced holders	2	323*
Auto folding top	296	130
Boot	36	56
Button loops	24	660
Closure holding		
Wooden boxes	217	66*
Clutch	192	80*
End attaching devices	24	265R*
Hand		
Casket lowering	27	33*
Package and article carriers	294	149*
Railway car	105	354
Harness		
Breast	54	58*
Breech	278	128
Hame	54	28
Hitching	54	34
Loops	24	182
Hat	132	58
Machine element	74	570*
Making		
Box straps	140	74
Strap finishing	69	17
Nuclear reactor moderator support	376	304
Safety	182	3*
Tighteners	24	68R*
Bale and package ties	24	19
Portable, detachable tensioners	254	199
Trouser	24	72
Weaving machine		
Harnessing connecting	139	88
Shuttle fly lug connecting	139	153
Wheel brake	188	77R
Wrist watch	224	164
End attaching devices	24	265R*
Stratifying (See Separator, Solids)	209	
Straw		
Drinking	239	33
Drinking device	D 7	300.2
Holder	D 7	635
Mattresses	5	448*
Stacks forming	414	132
Streamlined		
Aircraft	244	117R*
Railway trains	105	1.4
Street (See Road)	404	
Cleaners and sweepers		

	Class	Subclass
Brushing	15	78+
Machinery	D32	15+
With air blast or suction	15	300.1+
Flushers	239	146+
Lantern	362	257+
Oilers	239	130
Pavements	404	17+
Signal		
Marker	404	9+
Mirrors and reflectors	404	14
Traffic	116	63R
Signs	40	612
Street light	D26	67+
Design	D20	17
Underground electric conductors	174	39
Streetcar	D12	36+
Appliance	D13	128
Strength Measuring		
By acoustic emission	73	801
By impact or shock	73	12+
By testing model of structure	73	804
Hardness	73	78+
Muscular	73	379
Coin controlled	194	
Optically sensed	73	800
Periodic	73	808+
Alternating tension & compression	73	797
Stress strain	73	788+
To cracking of specimen	73	799
Streptomycin	536	14
Stress Distributing (See Equalizing)		
Conduit electric	174	73.1
Insulator electric	174	140R+
Testing	73	760+
X ray tube	378	139
Stretchers & Stretching (See Definition Notes; Tension; Tightners)	254	199+
Boot and shoemaking		
Loose upper shaping	12	54.1+
With diverse operations	12	52.5
Coating process	427	171+
Coating process combined	427	401
Design	D12	128+
Fabric		
Apparel	223	52+
Carpet	254	200+
Carpet	294	8.6
Carpet fastener combined	16	5
Fastener applier combined	227	12
Frame, eg curtain stretcher	38	102.1+
Framed panel	160	378
Hat shaping	223	15
Hung or draped	160	328+
Ironing table combined	38	108
Smoothing	38	102
Smoothing implements combined	38	70
Smoothing machine combined	38	12+
Wire	140	108+
Working combined	26	51+
Fence incorporated	256	37+
Frames		
Tack puller for	254	18
Textile sheets	38	102+
Horseshoe	168	9
Invalid lift		
Bottoms and slings	5	89
Field type	5	82R+
Wheeled	296	20
Leather		
Belt	69	1.5
Frame	69	19.1+
Lasting machine	12	7+
Lasting tool	12	108+
Shoe spot stretchers	12	115.2+
Translating tool	69	46
Work holder	69	19
Metal curving or straightening	72	302
Metal slitting and	29	6.1
Necktie	223	65
Pelt	69	19.1+
Pushing and pulling implements or apparatus	254	199
Resilient article assembling	29	235
Saw making	76	26+
Screws for ropes and cables	28	240+
Twisting combined	57	310
Ships sail	114	109+
Shoe former	12	128V+
Skein washing combined	68	159
Spinning and twisting combined	57	310
Strap	24	68D
Stretch forming	72	295+
Textile web running lengths	26	71+
Biaxial	26	72+
Heater-dryer and spreader	26	92
Heater-dryer combined	26	106
Roller spreader	26	99+
Spreader	26	87+
Tubular fabric spreader	26	80+
Web condition responsive control	26	74+
Thread finishing	28	240+
With liquid treating	28	246
With stopping	28	242
Umbrella tent	135	20R
Wire (See notes to)	140	123.5
Striated Effects Surface Type	428	30
Striker and Striking		
Ammunition fuse etc	102	272+
Animal trap	43	77+
Clocks	368	243+
Electric	368	250+
Comminuting		
Hammer mills	241	86+
Hammer mills	241	185R+
Hammer mills plural parallel zones	241	138
Hammer mills plural series zones	241	154
Impact processes	241	27
Diaphragm horn with rotary	116	143+
Fixed bell with pivoted	116	167
Gong with pivoted	116	155+
Lock	292	340+
Mechanism for music players	84	323+
Piano	84	236+
Movable figure toys	446	336
Music instruments		
Automatic outside players	84	111
Piano auxiliary	84	224
Piano hammer actions	84	236+
Pneumatic pianos	84	54
Rigid vibrators with	84	404
Stringed with	84	12
Punching bags	272	76+
Railway draft block	213	58+
Surfaces for matches	44	643
Compositions	149	
Typewriter		
Index wheel	400	165.1+
Key wheel	400	174+
String (See Cord; Strand)	57	
Catgut	84	297S
Covering with copper or silver wire	57	3
Draw	24	712
Gut	8	94.11
Insulators	174	150
Stress distributing combined	174	141R
Musical instrument	84	297S+
Covering with wire	57	3
Design	D17	14+
Piano	84	199
Tuning devices	84	455
Nail manufacture	10	45
Nailers	227	95+
Plate piano	84	188
Frame and sounding board combined	84	184
Frame combined	84	185
Sounding board combined	84	187
Shoe	24	715.4+
Tag	40	662+
Band type	40	665
Tear	206	616+
Stringed Instruments	84	
Automatic player pianos	84	7+
Electric pickup	84	723+
Stringer (See Girder)		
Railway	238	24+
Tie ends	238	42
Seed corn	139	19
Stringing		
Assembling by (See notes to)	29	241
Beads	29	700+
Apparel trimming	223	48
Sewing machine for	112	121.19
Tennis racquet	273	73R
Tobacco	414	26
Striping		
Brush	15	166
With material supply	401	193
Coating		
Implement	401	48
Machine	118	
Processes	427	286+
Fabric weaving	139	417
Stripper and Stripping		
Berry	56	330
Bobbin	28	292+
Coating	118	100+
Coil	242	81
Color stripping	8	102
Cotton	56	33+
Cutlery combined	30	128+
Electrolytic	204	146
Apparatus combined	204	193+
Expressing press cake	100	218
Cloth removing	100	298
Fiber and thread		
Carding	19	108+
Guides	28	222+
File blank	29	77
Filling tube	141	265
Harvesting	56	126+
Insulation from wire	81	9.4+
Molds and castings	164	
Ingot strippers	164	405+
Nail strippers	193	38
Of electrophotographic copy sheets	355	315
Of electrophotographic copy sheets	430	256+
Photographic paper and films	430	256+
Prick punch	30	368
Punch press	83	111
Tube or sheath splitter	30	90.1+
Vine and seed	460	123
Strips (See Tape)		
Adhesively affixing	156	
With cutting	156	510+
Apparel	2	338+
Breaker strip	152	526
Building joint covering	52	459+
Buttonhole	2	266
Carpet fastening	16	16
Continuous binding	281	23
Dispensing	221	33+
Continuous strip	312	39
Towel	312	37
Feeding and delivering	226	
Form pockets	282	11.5 R
Guide sewing machine	112	152
Handling (See feeder; sheet)		
Manifolding	282	12R+
Metallic	428	544+
Compound	428	615+
Strips of repeated articles, cut up later	29	DIG. 4
Paper	281	5+
Leaves books combined	282	2+
Leaves combined	281	2
Printed	283	62
Pasters	156	
Perforated telegraph tape	178	112
Recorder record receiver	346	136
Recording paper	346	136
Servers (See notes & definitions)	226	
Spiral cutting	83	680
Supports	211	45+
Stacked	211	50+
Switchboard	361	331
Telephone	379	325
Tack	411	439+
Tape appliers shoe making	12	59.5
Tearing or breaking	225	
Container opening	206	605+
Telegraph tape	178	111+
Towel supports	211	16
Locked	211	6
Vehicle body wear	296	41
Weather	49	475+
Windshield	296	93
Winding and reeling	242	
Woodcutters for strips		
Bench planes	30	478+
Slicers	144	164+
Veneer lathe	144	215
Stroboscopes		
Electric		
Frequency	324	78R+
General	324	
Phase	324	83R+
Electric lamp systems	315	
Condenser discharge	315	227R+
Optical	356	23+
Stroboscopic Light Synchonizer	356	23+

	Class	Subclass
'Condenser supplied lamp	315	227R+
Using electronic tube for trigger	315	208
Using photocell	315	149+
Stroke Regulation		
Dispenser volume varying		
Piston or follower	222	309
Relatively movable actuator	222	287
Expansible chamber device	92	13
Expansible chamber motors	91	277+
Pump type dispensers	222	375
Mechanical movement	74	20+
Piano actions	84	221+
Pumps	417	212+
Lubricating	184	26+
Punches	83	248
Punches	83	527+
Rotary	91	472+
Stroller (See Baby, Carriage)	280	47.38+
Collapsible	280	639+
Seated occupant	280	650
Design	D12	129
Strontium (See Alkali Earth Metal)	75	
Strophanthin	536	6.1
Stropping Devices		
Cutlery	30	138+
Razor	30	35+
Reciprocating tool	51	63
Reciprocating work holder	51	153
Structure	76	81+
Surface renewing	51	276
Work rotating	51	155
Structural Elements (See Reinforcement)		
Brake beams	188	219.1+
Bridge details	14	14+
Fence rail	256	60+
Laminated and analogus structure		
Flexible fabrics	428	224+
Glass	156	99+
Making		
Beam or girder	29	897.2
Columnar member	29	897.3
Openwork	29	897.31
Panel	29	897.32
Rails	238	122+
Rolled flanged bars	72	221+
Sheet piling	405	276+
Static structural component	29	897.33
Stock shapes	428	544+
Vehicular	29	897.35
Molded in situ	264	31+
Pipe	138	177
Railway ties	238	54+
Strands	57	902*
Structured Biocides	424	405+
Structured Insecticides	424	405+
Structured Repellants	424	405+
Strut		
Aircraft landing	244	100R+
Spring	267	2+
Aircraft lifting	244	37
Folding bed	5	139+
Railway dumping car door actuator	105	304
Scaffold	248	351+
Building propped	182	87
Window type	182	62
Sprinkler head collapsing	169	38+
Strychnine	546	35
Stub		
Attached tab	402	500
Axle		
Control dirigible light supports	362	55+
Motor vehicle, driven & steerable wheel	180	253+
Occupant propelled vehicle	280	269
Occupant steered vehicle	280	93+
Railway truck	105	180
Railway truck radial	105	169
Short turn vehicle	280	103
Trailer steering devices	280	443+
Switch railway	246	445+
Stuckberger Type Crystallization	156	616.4
Stud		
Balance	368	178
Fixture wiring with box	174	62+
Hame bolt	54	26+
Lacing	24	713.9+
Making metal studs	29	12
Making		
Spiral	140	92
Removers	81	53.2
Studding	52	720+
Composite, stone like component	52	367+
Facer attached	52	474+
Ribbed concrete	52	327+
Settable material backer attached	52	344+
Studio Photographic	354	290
Stuff Working	241	
Stuffed and Stuffing		
Container filling	493	967*
Horse collar	69	4
Mattresses	5	448+
Stuffing devices	53	524
Multiweft fabric stuffer warp	139	415
Packed shaft or rod joint	277	
Pile fabric stuffer warp	139	406
Sausage	17	35+
With linker	17	33
Truss pads	128	120.1
Stuffer Box	28	263
Stump		
Burner	110	239
Design	D23	334
Remover	254	
Excavator	37	2R
Hand and hoist line implements	294	
Traversing hoist	212	
Splitter in situ	144	193E
Stylographic Pens	401	258+
Stylus		
Code transmitter	178	87
Facsimile	358	478
Synchronization	358	424
Indenting	81	9.2
Manifolding	81	9.2
Pen material retaining	401	292
Phonograph or sound recorder and reproducing		
Changers	369	171+
For sound box	369	161
Holders	369	170
Stylus feed	369	172
Styptic Pencil	604	309
Composition	424	
Styrene	585	
Copolymers (See also synthetic resin or natural rubber)	526	347
With diolefines	526	340
With cyclodiolefines	526	280
Polymerized liquid	585	428
Polymerized solid (See also synthetic resin or natural rubber)	526	347.2
Synthesis	585	435+
Styrofoam T M	521	79
Mold filling	264	DIG. 1
Pre-expansion	264	DIG. 9
Styrols (See Styrenes)		
Sub-critical Reactor Nuclear	376	158
Subduing Color	8	102
Subirrigation	405	36
Sublimation		
Apparatus combined	422	189+
Furnaces metallurgical	266	144+
Hydrocarbon purification by	585	801
Processes		
Inorganic materials	23	294R+
Refrigeration by	62	384+
Automatic	62	165+
Sulfur	423	578R
Submarine		
Amusement railway	104	71
Cable	174	
Loaded	178	45
Telegraph system	178	63R
Dredger chamber	37	56
Earth boring	175	5+
Hooks and grapples	294	66.1+
Ordnance	89	5
Pipe and cable laying	405	158+
Rescue bell	405	189
Signal and light		
Electric signaling	340	850+
Indicator or signal	116	27
Lanterns	362	257+
Toy boat	446	161+
Tunneling	405	136+
Vessels	114	312+
Subscript Character	400	904*
Subsoil		
Drainage	405	36+
Irrigation channels	405	36
Irrigators	405	35+
Plant	47	48.5
Plow	172	699+
Weeding	172	720
Substitutes (See Artificial)		
Foods and beverages		
Butter and lard	426	601+
Butter design	D 1	
Coffee	426	569+
Egg	426	531+
Leather	428	904*
Tobacco	131	359
Vehicle wheel	305	
Subterranean Heater	165	45
Subways (See Tunnel)		
Tunnels	405	132
Ventilation	98	49
Succinic Acid	562	590
Esters	560	190+
Succinic Anhydride	549	233
Succinimides	548	545+
Suckling Appliances	119	71
Sucrose	127	
Inversion	127	41
Precipitation	127	47
Suction (See Pneumatic; Vacuum)		
Abradant remover	51	273
Anchors	114	296
Boxes paper making	162	363+
Cup		
Bracket	248	205.5+
Light support	362	397
Support	248	363
Surgical	604	314+
Dental apparatus	433	91+
Denture	433	184+
Draft appliances for furnaces	110	162
Feeder conveyer holding item by	209	905*
Machines		
Cleaning	15	300.1+
Dispensing articles	204	124
Dredgers	37	58+
Insect catchers	43	139+
Label picker	156	569+
Lubricator	184	58+
Milker pulsators	137	103+
Milkers	119	14.27+
Shears combined	30	133
Tobacco feeding	131	110
Operated motor horn	116	138
Pneumatic conveyor	406	151+
Nozzle	406	152
Pump	415	
Pump	417	
Tool holder-flexible abrasive	51	362
Sugar	127	
Cane plant	PLT	89
Planting	111	907*
Crystals washing out	127	63+
Cutting and shaping	425	289+
Electrolytic treatment	204	138
Fermentative liberation	435	94+
Foods containing	99	
Design of foodstuffs	D 1	
Grape	127	36+
Invert	127	41
Purification	435	276
Syrups	426	658+
Suint	260	398+
Removal from wool	8	139.1
Suit	D 2	49+
Space suit	128	402+
Wet suit	2	2.1 R
Suitcase		
Locks	70	69+
Traveling bag	206	278+
Sulfadiazine	544	297
Sulfamic Acids, Organic	562	37+
Sulfamides	564	79
Sulfanilamide	564	86
Sulfanilic Acid	562	58
Sulfapyridine	546	312
Sulfate		
Electrolytic synthesis	204	93
Esters	558	20+
Fertilizers containing	71	
Inorganic	423	544+
Thio	423	514
Sulfation		
Carbocyclic or acyclic cpds	558	20+
Fatty oils or acids	260	400+
Sulfenamides	564	102

	Class	Subclass
Sulfonate Esters	558	62
Sulfides		
Binary inorganic	423	511
Inorganic	423	511+
Containing	424	706+
Medicine or poison containing	424	706+
Organic	568	38+
Amine	564	100+
Containing	514	706
Sulfinamides	564	101
Sulfinate Esters	558	61
Sulfinic Acid	562	125
Sulfinylamines	560	317
Sulfite		
Inorganic	423	519
Liquor		
Carboxylic acids from	562	513
Coating or plastic compositions containing	106	123.1
Compositions	162	83+
Fermentation by yeasts	435	251
Lignins from	530	500+
Paper stock treatment	162	83+
Synthetic resins containing	527	400+
Tanning agents containing	8	94.31
Organic	260	
Reducing composition	252	188.21
Sulfite Esters	558	59
Sulfo Acids	562	30+
Sulfoacetic Acid	562	109
Sulfohydroxamate Esters	560	303
Sulfonamides	564	80+
Acyclic	564	95+
Aromatic	564	84+
Hydrazine containing	564	81
Plural	564	82+
Sulfa type	564	86
Sulfonate Esters	558	44+
Sulfonation of Fatty Oils	260	400
Fatty oils	260	400
Sulfones	568	28
Sulfonic Acids	562	30+
Aromatic preservation	562	41
Fat cleavage with	260	416
Hydrophenanthrene nucleus containing	562	31
Mineral oil sludge source	208	13
Triphenylmethane	552	112+
Wetting agent containing	252	353+
Sulfonium	568	18
Sulfophthalic Acid	562	54
Sulfoxides	568	27
Sulfur		
Acids and acid anhydrides	423	512R+
Electrolytic synthesis	204	104
Binding agents	44	589+
Combined with fuel	44	604
Burner	422	160+
Compounds organic		
Carboxylic acids		
Acyclic	562	512+
Acyclic acid moiety	560	147+
Alicyclic esters	560	125
Aromatic	560	9+
Fats fatty oils ester type waxes higher fatty acids	260	399+
Heterocyclic	549	1+
Dye compositions	8	
Food fumigation with	426	319
Medicine or poison containing	424	
Mining	299	3+
Misc. chemical manufacture	156	DIG. 72
Preparation inorganic	423	
Electrolytic	204	128
Removed from coal	44	622+
Rendering harmless in fuel	208	177+
Salts inorganic	423	
Electrolytic synthesis	204	92+
Sulfureted hydrogen	423	563
Sulfuric acid	423	522+
Apparatus		
Chambers	422	
Concentrating	422	160+
Trains	422	160
Electrolytic synthesis	204	104
Esters	558	20+
Mineral oil sludge source	208	13
Sulfurization		
Fatty oils	260	399
Rubber molding combined	264	
Synthetic resin or natural rubber	525	343+
Synthetic resin from	528	389
Synthetic resin or natural rubber compositions containing	524	1+
Treating agent containing	526	917*
Sulfurous Acid	423	521
Apparatus trains	422	160
Paper stock treatment	162	83+
Sulfuryl Chloride	423	462
Sulky Vehicle	280	63+
Go cart	280	47.24
Sultones	549	10+
Naphthosultone, seven membered hetero ring	549	10
Five members	549	33
Four members	549	89
Six members	549	15
Sun (See Solar)		
Sun Baths	128	372
Sun Roof, Automobile	296	
Sundial	33	270
Design	D10	45
Sunglasses		
Clip on type	D16	102
Supercharger		
Centrifugal pump	415	
Internal combustion engine	123	434+
Combined	123	559.1+
Fluid pressure motor combined	60	598+
Turbine combined	60	598+
Turbine combined	60	597+
Superconductive		
Alloys	420	901*
Cable	174	125.1
With cooling	174	15.5
Electromagnet	335	216
Inductor	336	DIG. 1
In power system	323	360
Magnetometer	324	248
Oscillator	331	107S
Process of making conductor	29	599
By coating	427	62+
Resistor	338	32S
Solid state system	307	200.1+
Wave transmission	333	99S
Superconductor		
High temperature (above 30 degrees k)	505	1
Apparatus	505	1
Material	505	1
Process	505	1
Low temperature (at or below 30 degrees k)	505	800+
Alloy or metallic composition	420	901
Coating	427	62
Control circuit for electro-magnetic device	361	141
Electric conductor structure	174	125.1
Cooling of	174	125.1+
Electric pulse counter, pulse divider, or shift register	377	93
Electrical computer or data processing system	364	775
Housing or mounting assembly with plural diverse electrical components	361	331+
Impact ionization or thin film device	307	277
Inductor	336	DIG. 1
Josephson junction device	357	5
Magnet or electromagnet	335	216
Magnetic field shield	307	91
Magnetic lens	250	396ML
Magnetic measuring device	324	248
Making by coating, forming, etching, or sputtering	204	192.24
Mechanical manufacture	29	599
Nonlinear solid state device and circuit	307	200.1+
Digital logic	307	462
Digital logic function (and, or, nand, or not)	307	476
For attenuation	307	541
For gating	307	245
With josephson junction	307	306
Power supply or regulation system including transformer or inductor	323	360
Protective circuit	361	19
Resistor responsive to magnetic field	338	32S
Rotary dynamoelectric motor	310	40R+
With cooling or fluid feeding	310	52+
Solid state active element oscillator	331	107S
Solid state device with housing and cryogenic cooling	357	83
Squid	357	5
Static information storage device	365	160
Josephson junction type	365	162
Thin film type	365	161
Stock material	428	930
Temperature measurement	374	176
Wave transmission line or network	333	99S
Superfinish Grinder	51	57+
Superheater		
Concentrating evaporator	366	127
Cupola combined	48	64
Steam	122	459+
Locomotive combined	105	45
Power plant combined	60	643+
Superheterodyne Receiver	455	130+
Superphosphates	423	
Fertilizers	71	33+
Superplastic	420	902*
Superregenerative Radio	455	336+
Superscript Character	400	904*
Supersonic Wave	367	
Agitation	366	
Bonding non-metallic		
Apparatus	156	580.1+
Process	156	73.1+
Chemical apparatus	204	193
Chemical change causing		
Apparatus	204	193
Code signaling	116	18+
Controls direction of travel	318	460
Airplane	244	76R+
Electric motor actuated	318	460
Torpedo	114	23
Gas separation	55	277
Process	55	15
Generator	116	137A
Piezoelectric, resonator combined	310	322
Piezoelectric with mechanical energy coupling means	310	334
Laminating processes	156	73.1+
Measuring using	73	570+
Metal casting using	164	501
Nautical signaling	116	26+
Seismic surveying	181	
Submarine signalling	367	131+
Testing miscellaneous	73	570+
Welding apparatus using	228	1.1
Supervisory Control	340	825.6+
Support (See Article or Device Supported)	248	
Airplane motor	248	554+
Antenna combined	343	878+
Apparel	2	300+
Apparatus	223	120
Design	D 2	624+
Arch	128	166.5
Armrest	248	118
Article by building	52	27+
Articles		
Or object being X rayed	378	38
Plural	211	
Plural locked	70	62
Single	248	
Ash tray smokers	131	240.1+
Athletic	128	157+
Bag	248	95+
Baggage	190	18R
Ball rack	211	14+
Basin	4	643+
Bathtub	4	592+
Bather	4	571+
Bearing	384	428+
Bed linens	24	72.5
Bed attached	5	504+
Beds	5	
Blotter, ie desk pad	248	346+
Boat		
Foot supports	114	363
Seat	114	363
Bobbin	242	130+
Body catchers	182	137+
Body harness	182	3+
Baby jumper	297	275
Body in bed	5	431+
Boiler	122	510

	Class	Subclass
Bookshelf combined	108	59+
Boot rack	211	34+
Brackets (See bracket)	248	200+
Design	D 8	354+
Brake	188	205R+
Brush and broom	248	110+
Plural	211	65+
Cabinet	312	
Cabinet housing	312	253
Selective diverse	312	243
Camera (See --, tripod)	354	293
Cane rack	211	62+
Casket	27	26
Covers	27	18
Catamenial	604	393+
Ceramic stiff	432	258+
Chairs & seats	297	
Chin	128	164
Corpse	27	25.1
Christmas tree	248	511+
Cigar and cigarette	131	257+
Clock	248	114
Case	368	316
Clothes spotting boards	68	240
Clothesline	211	119.1+
Clutch	192	115
Coating implement fountain combined	401	48
Non-use support	401	131
Cue	211	68
Curtain	160	
Cutlery	30	296.1
Base supported	30	273+
Forks	30	323
Guarded	30	290+
Shears	30	231+
Spoons	30	327
Device with	92	161
Diaper	604	393+
Disinfecting apparatus	422	297
Dispenser	222	173+
Movable supply container	222	160+
Distill and	202	266
Drill rack	211	69
Drum musical	84	421
Drying apparatus	34	239+
Earthworking tool	172	
Bulldozer	172	811+
Easels	248	441.1+
Eaves trough	248	48.1
Egg rack	211	14+
Electric devices (See X-ray)		
Battery cradles	429	96+
Battery mounts automobile	180	68.5
Battery racks	429	96+
Cable	248	49+
Cell assembly support feature	429	186
Conductors in duct	174	99R+
Electrode	314	130+
Electrode	429	208
Fixture rack	211	26
Holder per se	429	100
Insulator	174	158R+
Lamp filament	313	271+
Outlet or junction box	220	3.9+
Support	248	906*
Overhead conductors	174	40R+
Plating electrode	204	286
Removable cell	429	96+
Secondary battery	429	208+
Telephone	379	454+
Third rail	191	32
Trolley	191	40+
Wire supports	52	40
Eye glass	351	155+
Holder	248	902*
Fan	416	146R
Field glasses	350	547+
Flashlight	362	157+
Flexible abrasive tool	51	358+
Floral	248	27.8
Fluid handling apparatus	137	343+
Food	99	324+
For receptacle	248	311.2
Founding		
Core	164	397+
Insert in mold	164	332+
Funnel	248	94
Furnace (See --, stove)		
Furniture	211	27
Gaff	114	99
Gate front end	49	396
Glass mold	65	361
Golf bag	248	96
Gun rack	211	64
Hair foundations	132	53+
Hammock	5	127+
Hand stamp rack	211	39
Harness	54	84
Body	119	96+
Reins	280	181+
Trace end	54	56
Hatrack	211	30+
Head	297	391+
Heat exchanger	165	67+
Corpse	27	13
Hinged leaf		
Binder device releasably engaging aperture sheet	402	
Book or leaf	281	45
Display items	40	530+
Movable on horizontal axis	211	169.1
Horizontally supported planar surfaces	108	
Hose conduit	248	75+
Indicator mountings	248	904*
Inkstand, dispenser type	222	577
Inkstand, movable inkwell	248	128+
Inkstand, stationary inkwell	248	146+
Instrument in panel	248	27.1+
Jock strap	128	158+
Junction box	220	3.9+
Kinesitherapy vibrator	128	33
Light	362	382+
Bowl	362	433+
Chimney	362	314
Inverted bowl	362	453
Lens	362	455
Shade	362	433+
Shade and bowl	362	351+
Light filter	350	318
Machine	248	637+
Mattress rack	211	28
Mirror	248	466+
Frames or holders combined	52	
Nozzle	248	75+
Sprinkler head	169	41
Nuclear reactor	376	461
Fuel core	376	362
Nursing bottle	248	102+
Opera glasses	350	547+
Optical instruments	248	
Orthopedic	128	68+
Outboard motor	248	640+
Outlet box	220	3.9+
Panel	52	474+
Face-to-face panels	52	479+
Retaining means	52	764+
Paste tube	248	108+
Pen or pencil rack	211	69.1+
Phonograph record rack	211	40
Picture	248	466+
Frame combined	40	152.1+
Pipe		
Conduit	248	49+
Coupling	285	61+
Dredger	37	72
External structure combined	138	106+
Joint	285	61+
Smokers	131	257+
Plant	47	44+
Plaster	52	443+
Furring joist or stud	52	344+
Plumbs	33	370+
Pressure compensating	248	901*
Projection machine	248	637+
Punching bag	272	78
Racks (See rack)	211	
Radiator	165	67+
Railway couplings		
Link supports	213	205+
Pin supports	213	192+
Railway mail delivery	258	23+
Receptacle	248	
Letter box	232	39+
Milk pail lap supported	220	17.1+
Racks	211	71+
Safe	109	50
Stands	248	128+
Tray type	211	126+
Tray type stand	248	127+
Wall	220	476
Receptacle covers		
Casket	27	18
Removers	81	3.8+
Wooden	217	60R+
Refrigerating apparatus, resilient	62	295
Refrigerator housing	62	297
Refrigerator, internal	62	465+
Door mounted	62	377
Ice	62	459+
Rod	248	251+
Roller		
End	160	323.1+
Intermediate	242	73.5
Score line	248	909*
Screen	160	
Shade	160	
Shipping	410	46
Shoe	211	34
Counter and heel	36	69
Pad and foot	36	71
Shoelace rack	211	61
Sifting	209	409+
Simulation	248	908*
Skaters	272	70+
Smoking appliance	131	257+
Spectacle	351	155+
Stands (See also stand)	248	127+
Static mold having	249	139
Stove or furnace		
Base	126	305
Cooking stove fluid fuel	126	50
Field stove	126	30
Stand boiler	126	363
Strainer	248	94
Stratifier	209	508
Stringed instruments	84	327
Surgical needle	606	44
Tank, water closet	4	419+
Temperature compensating	248	901*
Thermometer, indicating tube	374	194+
Tire rack	211	23+
Tissue dispenser holder	248	905*
Tobacco users appliance	131	257+
Toilet bowl	4	252R+
Tool driving or impacting device combined	173	31
Toy	446	227
Figure rotary	446	236
Figure wheeled	446	269
Trash can support	248	907*
Tree	47	42+
Tripod	248	163.1+
Truss	128	99.1+
Umbrella rack	211	62+
Valve	251	143+
Vehicle outrigger	280	763.1+
Crane	212	189
Vehicle part		
Harvester tongue	56	218
Motor	248	637+
Truck railway safety	105	217
Velocipede	211	17+
Vessel bilge or keel	405	7
Violin	84	280
Walkers	272	70+
Washboard	248	27.5
Watch	248	114
Weighing scales	177	244
Weighted base	248	910*
Wheel rack	211	23+
Whip	211	67
Design	D30	156+
Window pane	52	777+
Window pane	52	764+
Work (See holders, work)		
Work supported machines		
Lathe	82	128
Riveting machine	29	243.53+
Wringer	68	239
Wash bench combined	68	236
X ray film or screen	378	167
Dental cassetts	378	168
Table	378	209
X ray tube	378	193
Supporting		
Frame for skater	272	70+
Suppository	424	DIG. 15
Composition	514	966*
Soluble in body	604	288
Surgical		
Composition	424	

	Class	Subclass
Packages	206	529
Suprarenal Extracts		
Medicine containing	424	563
Surface Active Agents	252	351+
Surfaces		
Active agent	252	351+
Aircraft sustentation	244	200
Bearing		
Inserts	384	276+
Treating	384	625
Bed bottom	5	186.1+
Carbonizing of iron	148	16.5
Chair or seat		
Changeable supporting surface	297	283
Headrest with changeable surface	297	220+
Spring supported upholstery	267	80+
Cooking mold	99	372+
Sheet or griddle	99	422+
Demonstration	434	365+
Electric insulator	174	212
Electrically charged for safes	109	35
Erasable, eg chalkboard	434	408+
Leaves	281	39
Evaporators sugar making	127	16
Fluid reaction ie impellers	416	
Friction gearing	74	214+
Gauge plates	33	567
Heater	126	271.1+
Water vessel	126	390+
Horizontally supported planar	108	
Laminated type photographic	101	178
Stencil	101	128.21
Pavement	404	17+
Antislip	404	19+
Sheet type	404	18
Surface treating	404	83+
Planographic printing	101	453+
Platen or pressure	100	295
Printing member	101	401
Railway rail tread surface	238	148
Tie plate top surface	238	304
Receptacle stand for sloping surface	248	148
Roll or rollers	29	121.1+
Roughness testing	73	105
Smoothing or pressing textiles	38	
Street mirror or reflector T	404	14
Surgical electric applicator	128	783+
Textile drawing roll	29	110+
Washboard	68	226+
Washtub with scrub surface	68	233
Yielding surface printing member	101	379+
Rolling contact	101	376
Surfacing		
Button	79	7+
Drilling combined	79	6
Grinding	51	
Roads	404	17+
Stone	125	
Surfboard	441	74+
Design	D21	228+
Surgery and Surgical (See Classes 128 and 604)		
Acupuncture	128	907*
Adhesive fastener for absorbent pad	604	389+
Article package	206	438+
Basin	D24	56+
Biological signal amplifier	128	902*
Feedback to patient	128	905*
Blood coagulation	128	DIG. 22
Breathing apparatus without patient cross-contamination	128	909*
Cannula supporters	128	DIG. 26
Catheters (See catheter)		
Cervical collars	128	DIG. 23
Clip appliers	29	243.56
Collagen	128	DIG. 8
Computer controlled, monitored	364	413.1+
Cyrogenic	128	DIG. 27
Design	D24	
Electric shock, patient protection	128	908*
Fluid amplifiers	128	DIG. 1
Heart-lung	128	DIG. 3
Heat shrinkable film	128	DIG. 18
Infusion monitoring	128	DIG. 13
Intravenous injection support	128	DIG. 6
Invalid beds	5	60+
Mask	D29	7
Medical-surgical bags	128	DIG. 24
Medicament receptacle	604	403+
Mixing receptacles	604	416
Multiphasic diagnostic clinic	128	906*
Pressure infusion	128	DIG. 12
Radio telemetry	128	903*
Servo-systems	128	DIG. 7
Silicone	128	DIG. 21
Sphineters artificial	128	DIG. 25
Splint, clavicle	128	DIG. 19
Splint, inflatable	128	DIG. 2
Spotlights	362	804*
Stapler	227	175
Supplies packaged	206	438+
Suppression of noise in electric signal	128	901*
Syringes (See syringe)		
Table	269	
Teaching	434	262
Teflon T M	128	DIG. 14
Tree	47	8
Velcro T M	128	DIG. 15
Surlyn D T M (polyethylene Methacrylic Acid)	526	317.1
Survey Meter Nuclear Energy	250	472.1+
Scintillation type	250	361R
Surveying Instruments	33	290+
Bent line of sight type	356	253+
Angle measuring	356	138+
Range or height finders	356	3+
Optical features	356	247+
Design	D10	61+
Survival in Hostile Environment		
Computer controlled, monitored	364	413.3+
Suspended		
Roof	52	83
Swings	272	85+
Suspender		
Artificial leg	623	32
Fasteners design	D 2	640+
Garment		
Design	D 2	626
End elements	2	340
Fasteners for	D11	200+
Plural	2	304+
Saddle type cord retainers	2	341+
Strip connected spaced	2	323+
Trouser attached	2	230
Suspension Devices (See Hangers)		
Battery active material, faure electrodes	429	208
Clothesline single run	211	119.12
Drying		
Hollow articles	34	106
Sheets webs or strands	34	151+
Filter household	210	105
Fluid (See suspensoids)		
Current drying method	34	10
Separating solids	209	132+
Folding bed fulcrum	5	141
Insulator support	174	160
Knob flexible	16	122
Light bowl	362	453+
Picture support	248	489+
Pipe or cable	248	58+
Rack for broom and brush	211	66
Radiator bracket	248	233
Roundabout amusement vehicle	272	40+
Special receptacles or packages	206	806*
Stage appliances	272	24
Structures & vehicles (See hanger)		
Boiler regulation	122	450
Bridge cantilever truss	14	8
Bridges	14	18+
Dumping railway car	105	242
Fences	256	23
Railway car body	105	453
Railway car suspended	105	148+
Railways	104	89+
Scaffolds	182	142+
Track	104	123
Unloader for suspended vehicle	414	377+
Vehicle body spring	280	788
Suspended supports	248	317+
Swinging seat	272	85+
Tea ball type beverage infuser	99	322
Telephone supports	379	454+
Tool and machine		
Brush flue cleaner	15	163
Cable drum	254	380+
Car journal box lifting	254	34
Conveyor, load suspending	198	678.1+
Conveyor loop	198	678.1+
Cultivator wheeled	172	
Grapple pivoted saw operator	294	112
Harvester knife grinding clamp	51	223
Machinery support	248	637+
Resilient	248	610
Plow wheeled	172	
Scraper flue cleaner	15	243
Sheet delivering conveyors	271	198+
Strap	76	81+
Vehicle springs	267	
Stub axle mounts	280	660+
Vehicle structure combined	280	788
Vehicle systems	280	688+
Suspensoids		
Colloidal	252	302+
Comminuting or grinding	241	
Electrical purification	204	186+
Electrolytic		
Forming processes	204	10
Treatment processes	204	130+
Electrophoretic or electro osmasis using	204	180.2+
Suspensories	128	158
Sustained or Differential Release		
Capsules	424	457+
Implants	424	422+
Tablets	424	468+
Sustained Release Implants	424	422+
Sutureless Closures	606	213+
Sutures		
Appliers surgical	29	243.56
Surgical	606	228+
Textile knitting	66	43
Hosiery seam	66	179
Swab	15	208+
Container for	206	209
Culture medium combined	435	292+
Diagnostic	128	759
Lubricator	184	102
Making	19	145+
Medicated	604	1+
Sampling	73	854
Valved pump piston	417	545+
Swaging		
Bolt side	10	18
Chain making shaping and	59	30
File cutting by	76	14
Horseshoe nail side	10	68
Horseshoe shaping and	59	58
Metal forging	72	
Nut forging side	10	79+
Pipe joint	285	382
Pipe to plate joint	285	222
Saw making	76	51+
Saw setting	76	72
Screw threading by	10	152R+
Tool sharpening by	76	89.2
Swarm Appliances	449	27+
Swash Plates	74	60
Expansible chamber device	92	71
Flow meter	73	244
Internal combustion engine		
Multiple parallel cylinder	123	58R
Rotating cylinder	123	43R
Motor	91	472+
Pump	417	269+
Swathing Attachments	56	189
Swatters	43	137
Sweater		
Animal	D30	145
Apparel	2	90
Design	D 2	44+
Knit fabric	66	176
Sweats or Sweat Band	2	181+
Hat making	223	22
Sweep		
Animal powered motor	185	19+
Cable drum actuation	254	381+
Circuit		
Cathode ray tube having	315	378
Electronic tube type oscillator	331	
Triggered	328	193+
Cultivator shovels	172	681+
Cutter	30	310+
Can opener	30	435+
Plural blade	30	310+
Foundry mold making device	164	161+
Pivoted arm bending machine	72	217
Plow trailing		
Separately attached wings	172	722+
Winged	172	730
Sheet cutting machine	82	
Wood auger	408	199+

	Class	Subclass
Wood disk cutting machine	408	72R*
Sweeper		
Brush broom vacuum carpet street	15	
Rake eg lawn broom	56	400.17*
Sweeping Compound	252	88
Sweet Potato Musical Instrument	84	380R
Sweetening		
Mineral oil	208	189*
Swelling		
Artificial fibers	8	130.1*
Dyeing combined	8	
Fiber swelling & stretching	8	DIG. 3
Swells		
Electric tone generation with expression device	84	633
Piano	84	182
Pipe organ	84	346*
Reed organ	84	372
Swimming		
Aids	441	55*
Buoyant	D21	237*
Foot attached	441	61*
Foot flipper	441	64
Exercising devices for simulating	272	71
Mask	D29	8*
Pool		
Design	D25	2
Grab rail	D25	41
Inground	52	169.7*
Nuclear reactor	376	174
Nuclear reactor	376	361
Nuclear reactor	376	403
Portable design	D21	252
Sea baths	4	487*
Tank baths	4	488*
Water purification	210	169*
Shoes	36	8.1
With fins	441	76*
Structure of pool	52	261
Concrete	52	250
Curved	52	245
Suit	D 2	40*
Teaching	434	254
Swinging Door	49	381*
Swings		
Amusement	D21	246
Chairs and seats	272	85*
With fan	416	146R
Roundabout	272	28R
Switch		
Apparatus for elevators	187	
Automatic		
Electromagnetic	335	6*
Thermal	337	298*
Automatic for acetylene generator	48	7
Battery	320	
Box	220	3.2*
Burglar alarm	200	61.58 R*
System	340	541*
Charging for storage batteries	320	
Combination	200	1R*
Conveyer type		
Chute	193	31R
Rollerway	193	36
Skidway	193	39
Spiral chute	193	13
Zigzag tube	193	28
Door actuated	200	61.62*
Electric (See controller)	200	
Arc lamp system having	314	131
Arc preventing or extinguishing	200	144R*
Automotive vehicle combined with lock	70	237*
Box or housing	174	53*
Check operated	194	211*
Coin	194	239*
Combined with distribution circuit	307	
Design	D13	158*
Display system control	340	806*
Door or window	200	61.62*
Electric illuminating fixture	362	394
Electric lamp having	315	32
Electromagnetic switching systems	361	139*
Electronic tube having	315	56
Electrothermally actuated	337	
Fire actuated	337	298*
Lamp or electronic tube system having	315	362
Light projector combined with	362	253
Magnetically operated	335	
Making	29	622
Mechanically actuated, general	200	
Multiple filament lamp having	315	64
Plate or socket lighting	362	95
Position or condition responsive	362	802*
Post supported electric light combined with	362	431
Supported electric light combined with	362	382*
Telegraph circuit manipulator	178	75
Telephone	379	422*
Telephone check operated	379	146*
Telephone switchboard	379	319*
Telephone system automatic selective	335	108*
Testing of automatic telephone type	379	17
Thermal control of alarm	340	593*
Thermally actuated	335	
Trolley conductor type	191	38
Tuner with	334	47*
Electronic	328	76
Heat controlled	337	298*
Inductor combined with switch	336	105
To neutralize capacitance	307	134
Interference from elimination	307	134*
Knife	200	
Luminous		
Faceplate	250	465.1
Handle or key	250	465.1
Push button	250	465.1
Movable carrier of textile braider with pattern mechanism	87	16
Movable for carrier of textile braiding apparatus	87	37*
Photoelectrically controlled	361	173*
Plates (See face, plates)		
Pneumatic dispatch system	406	181*
Railway	246	
Cable	104	184
Cable slot type	104	195
Foot guard	238	380
Rail joint	238	165
Track	104	130*
Trolley conductor	191	38
Stands	246	393*
Automatic face setting	246	278*
Manual operation with signal actuation	246	144*
Signal	246	476
Stoplight		
Auto	200	61.59
Hydraulic	200	81R*
Store service system	186	19*
Thermal responsive	337	298*
Heated by electric current	337	14*
Tilting track section type	414	354*
Vehicle unloading	414	357
Travelling crane system	414	562
Vertical axis for cutting and conveying harvester	56	170*
Switchboard		
Electric	361	331*
Telephone	379	319*
Divided central	379	310*
Through ringing	379	256
Switches		
Membrane type	200	512
Rotamite	200	503
Switching Systems	307	
Lamp systems	315	313*
Relay systems	361	160*
Signalling	340	286.1*
Selective	340	825*
Transmitters	341	
Telegraph	178	
Telephone	379	242
Automatic	379	258*
Calling	379	350*
Central	379	242*
Intercommunicating	379	167*
Party line	379	177*
Plural exchanges	379	219*
Switchboard	379	310*
Swivels	403	164*
Bracelets	63	10
Chain	59	95
Making	59	9
Chute horizontal swinging	193	22
Endless chain pumps	198	643
Fish bait artificial	43	42*
Fishhooks	43	44.83*
Panel hanger wheel mount	16	104
Pipe joint	285	272*
Multiple	285	168
Punching bag	272	77*
Railway car suspending	105	156
Rod joint	403	164*
Sleds multiple	280	17
Socket combined	24	136L*
Tool handle	403	52*
Trolley head electric collector	191	60*
Turnbuckle	403	60
Valve disc	251	264*
Valve gate	251	193*
Watch chain snap hook	24	905
Wheeled vehicle running gear	280	86
Wood saw	83	747
Swizzle Stick	D 7	300.2
Swords	30	165*
Cane	135	66
Carrier	224	232*
Design	D22	118*
Handles	D 8	DIG. 5
Pistol	42	53
Syphon T M (See Bellows)		
Flowmeter	73	262
Fluid pressure guage	73	729*
Fluid pressure regulator	137	505.36
Making	29	454
Corrugating	72	54*
Pump	417	472*
Synchronizing		
Camera and flash powder	354	129*
Camera and photoflash testing	356	72
Camera shutter release and light	354	129*
Clock	368	52
Clutches	192	52*
Dynamoelectric machine interconnection	307	43*
Electric motor	318	41*
Electric motor	318	85
Fluid pressure brake systems	303	35*
Gearing	74	339*
Governor	73	507
Impeller combined	416	34
Motion picture and sound	352	12*
Multiple motor	60	700*
Multiple motor	60	706*
Musical instrument	84	119
Plural radio stations	235	58M
Telegraphy	375	106*
Telegraphy multiplex	370	47*
Television	358	148*
Recording or reproducing color signal	358	319
Synchronous Motor	310	162*
Systems	318	700*
Synchroscope	324	91
Synthesis		
Electro	204	59R*
Inorganic compounds	23	
Organic compounds	260	
Polymers (See synthetic resin or natural rubber)		
Synthetic		
Alumina	423	625
Diamond and making	423	446*
Gem	501	86
Resin (See synthetic resin or natural rubber)		
Rubber (See rubber; synthetic resin or natural rubber)		
Synthetic Resin or Natural Rubber		
Abs (See also prepared from, below)	526	338
Addition polymerization	526	72*
Manipulative process features	526	59*
Adhesive material	520	1*
Compositions (See class 523, 524)		
Admixtures of resins or rubbers	525	50*
Aftertreatments		
Chemical reaction involved	525	50*
To produce ion exchange resin	521	25*
Utilizing wave energy	522	1*
Vulcanization of rubber (products)	525	331.9*
Vulcanization of rubber with sulfur or sulfur compound	525	343*
With asphalt or bituminous material	525	54.5*
With carbohydrate	525	54.2*

	Class	Subclass
With fatty acid or fatty acid glyceral ester	525	50+
With natural resin	525	54.4+
With protein or biologically active polypeptide	525	54.1+
Physical treatment	528	480+
Compositions	523	300+
Compositions: creaming, concentrating or agglomerating latex	523	335
Natural rubber e. g. extraction of rubber from plant source	528	931*
Natural rubber latex	528	934*
Natural rubber latex coagulating	528	936*
Natural rubber latex concentrating	528	937*
Natural rubber latex preserving	528	935*
Alkyd resin (solid polymer)	528	272+
Compositions (See class 523, 524)		
Containing chemically combined fatty acid or fatty acid glyceride	528	295.5
Containing chemically combined natural resin	527	604
Aminoplast resin (See also prepared from aldehydes, below)	528	266
Bakelite T M type resin	528	129+
Balata (See natural rubber, below)		
Blends of solid polymers	525	50+
Block and block type copolymers	524	88+
Buna T M type rubber	526	339
Buna-n (butadiene nitrile rubber)	526	338
Catalysts		
Aldehyde polymerization	528	232+
With phenol	528	137+
Chalcogen ring opening	528	406+
Epoxy resin	528	88+
Ethylenic polymerization	526	89+
Graft polymerization	525	244+
Redox	526	915*
Transition metal	526	90+
Polyester	528	274+
With ethylenic monomer	525	11+
Silicone	528	12+
Urethane	528	48+
Cellular or porous	521	50+
Blends of synthetic resin or natural rubber	521	134+
Blowing agent i. e. foaming agent	521	82+
Resin formation in the presence of	521	99+
Carbodiimide polymer	521	901*
Degradability enhanced	521	916*
Dye or pigment containing	521	920*
Electrical or wave energy used during cell forming	521	50.5*
Ethylene polymer	521	143+
Fireproofed	521	82+
Non-urethane resin	521	907*
Resin formation in presence of fireproofing agent	521	99+
Urethane resin	521	906*
Hydraulic cement ctg (See water settable inorganic composition ctg, below)		
Integral skin foam	521	51
Isocyanurate polymer	521	902*
Kicker or blowing agent moderator	521	909*
Latex rubber	521	65+
Natural resin containing	521	84.1
Synthetic resin formation in the presence of	521	109.1
Natural rubber containing	521	150
Latex	521	65+
Nucleating agents for	521	908*
Phenolic resin	521	180+
Pigment containing	521	920*
Polyester resin	521	182+
With unsaturated monomer	521	128
Protein containing	521	84.1
Resin formation in the presence of	521	109.1
Reduced smoke formation	521	903*
Reticulated foam	521	52
Separated reactive materials e. g. :two package system:	521	912*
Sintering process for formation of porus product	521	919*
Styrene polymer	521	146+
Foamed beads	521	56+
Syntactic foam	521	53+
Non resinous hollow particles	523	218+
Urethane polymer	521	155+
Vinyl chloride polymer	521	145
Compositions (See class 523, 524)		
Adhesive (See class 523, 524)		
Anerobic	523	176
Glass substrate	523	168
Antioxidant containing (See class 523, 524)		
Antistatic	524	910*
Asphalt containing	524	59+
Resin produced in presence of	524	705
With epoxy resin	523	450
With polyester-unsaturated monomer	523	518
Biocidally protected	523	122
Bitumen ctg (See asphalt ctg, above)		
Body contact or implantable (intended use)	523	105+
Brake shoe (intended use)	523	149+
Carbohydrate containing	524	27+
Resin produced in presence of	524	732+
With epoxy resin	523	447+
With polyester-unsaturated monomer	523	509
Carbon black containing (See class 523, 524)		
Resin produced in presence of	524	847
Specified dimension	524	495+
With epoxy resin	523	440
With polyester-unsaturated monomer	523	512
Castor oil containing	524	310
Resin produced in presence of	524	769
Cellular plant or animal material containing	524	9+
Resin produced in presence of	524	702
With epoxy resin	523	446
With polyester-unsaturated monomer	523	500+
Cellulose ether or ester ctg (See carbohydrate ctg, above)		
With polyester-unsaturated monomer	523	509
Chinawood oil containing (See fatty acid triglyceride, below)		
Coating (See class 523, 524)		
Antifogging	523	169
Glass enamel	523	170
Ink for glass substrate	523	160
Concrete ctg (See inorganic water-settable, below)		
Contact lens, used for (See also class 527-937)	523	106+
Cork ctg (See cellular plant or animal material, above)		
Degradability enhanced i. e. pro-degradant containing	523	124+
Dispersions (See emulsions, below)		
Drying oil ctg (See fatty acid triglyceride, below)		
Dye ctg (See class 523, 524)		
Emulsions (See class 523, 524)		
Aqueous (See also 524-501)	524	800+
Epoxide resin containing	523	400+
Fatty acid triglyceride ctg	524	313
Resin produced in presence of	524	773+
With epoxy resin	523	455
With polyester-unsaturated monomer	523	511
Feather ctg (See cellular plant or animal material, above)		
Fireproofed (See class 523, 524)		
Flux ctg (See class 523, 524)		
Foundry mold or mold core binder	523	139+
Hair ctg (See cellular plant or animal material, above)		
Heat stabilized (See class 523, 524)		
Inorganic water settable material ctg e. g. hydraulic cement	524	2+
Resin produced in presence of	524	650+
With epoxy resin	523	402+
With polyester-unsaturated monomer	523	501+
Lacquer (See class 523, 524)		
Latex (See class 523, 524)		
Coagulating	528	936*
Concentrating	528	937*
Creaming, agglomerating or coalescing	523	335
Physical treatment of natural rubber latex	528	934*
Preserving or stabilizing	528	935*
Resin produced in presence of water	524	800
Leather ctg (See cellular plant or animal material, above)		
Lignin or tannin containing	524	76
Resin produced in presence of	524	735
With epoxy resin	523	400+
With polyester-unsaturated monomer	523	500+
Linseed oil ctg (See fatty acid triglyceride, above)		
Molding (See class 523, 524)		
Natural resin ctg (See also rosin, below)	524	77
Synthetic resin produced in the presence of	524	764
With epoxy resin	523	400+
With polyester-unsaturated monomer	523	500+
Natural resin ctg (see class 523, 524 treated as polyisoprene)		
Guayule	528	930
Phonograph record (intended use)	523	174
Pigment ctg (See class 523, 524)		
Plasticizer ctg (See class 523, 524)		
Protein or biologically active polypeptide ctg	524	17+
Resin produced in presence of	524	704
With epoxy resin	523	449
With polyester-ethylenic monomer	523	500+
Rosin containing	524	270+
Synthetic resin produced in the presence of	524	764
Tannin ctg (See lignin, above)		
Tar ctg (See asphalt, above)		
Varnish (See class 523, 524)		
Wax containing	524	487+
Oxygen containing wax	524	275+
Oxygen ctg wax with epoxy resin	523	455+
Oxygen ctg wax with polyester unsaturated monomer	523	511
Resin produced in presence of oxygen ctg wax	524	763+
Condensation polymerization	528	
Manipulative process features	526	59+
Coumarone resin	526	266+
Dacron T M type resin	528	308.1+
Ebonite T M type resin	525	332.6+
Elastomer (See rubber, below)		
E P (ethylene-propylene)	526	348+
E P D M (ethylene-propylene-diene monomer)	526	
Cured or vulcanized	525	331.7+
Epoxide resin (See also classes 525, 528)	528	87+
Foams	521	50+
G R - N (acrylonitrile-butadiene rubber)	526	338
G R - S (styrene-butadiene rubber)	526	340
Graft or graft type	525	50+
Guayule (See also natural rubber)	528	930*
Hevea (See natural rubber)		
Hypalon T M type resin	525	333.9
Ion exchange resin	521	25+
Ionomer resin systems	525	919*
Carboxyl bearing	526	317.1+
Kraton T M type resin (styrene-butadiene rubber)	526	340
Lexan T M type resin	528	196+
Lucite T M type resin	526	329.7
Melamine resin	528	254+
Natural rubber (note: for purposes of the class 520 series natural rubber is considered to be polyisoprene)		
Neoprene	526	295
Vulcanized	525	330.9+
Nylon	528	310+

	Class	Subclass
Perbunan T M type rubber (copolymer butadiene-acrylonitrile)	526	338
Phenolic resin	528	129+
Phenoplast	528	129
Phenoxy resin	528	86+
Plexiglas T M type resin (polymethyl methacrylate)	526	329.7
Polyamide resin (See also 528-332+)	528	310+
Polycarbodiimide	528	44+
Polyesters	528	272+
Polyimide	528	310+
Polyphenylene oxide	525	905*
Polysulfide	528	373+
Prepared from		
Acetylene	526	285
Acrolein	526	315
Acrylates	526	328+
Acrylic acid	526	317.1+
Acrylonitrile	526	341+
Aldehyde e. g. homopolymer of saturated etc.	528	230
Ethylenically unsaturated	526	315
Hydrocarbon	528	247
Melamine	528	254+
Urea	528	259+
With amine e. g. aniline etc.	528	266+
With ketone	528	227
With phenol	528	129+
Asphalt or bituminous material	527	500
Unsaturated	526	290
Butadiene	526	335+
Carbohydrates e. g. sugar, starch etc.	527	300+
Unsaturated carbohydrate derivative	526	238.2+
Carboxylic acid or derivative	528	271+
Ethylenically unsaturated	526	317.1+
Cashew nut liquor	528	2+
Cellular plant or animal material	527	100+
Chloroprene	526	295
Coal derived material (See asphalt or bituminous material, above)		
Cork	527	100+
Coumarone	526	266+
Diolefin hydrocarbon	526	335+
Cycloaliphatic	526	308
Fused or bridged ring	526	280+
Epoxide compound	528	403+
Diglycidyl ether of bisphenol compound (See also 525-523+; 525-107+;525-403+)	528	87+
Ethylenically unsaturated	526	273+
Ethylene (homopolymer)	526	352+
Copolymer	526	72+
Ethylenic monomer (solely therefrom)	526	72+
With non-ethylenic monomer (See also class 527)	528	
Formaldehyde (See aldehyde, above)		
Furfural (See also aldehyde, above)	526	270
With non-ethylenic monomer	528	230+
Hydrocarbons	528	396+
Ethylenically unsaturated (See also 526-335;526-346)	526	348+
Indene	526	280+
With coumarone	526	266+
Isobutylene	526	348.7
With butydiene	526	339
Isocyanate compound	528	44+
Isoprene (note: for purposes of the class 520 series natural rubber is considered to be polyisoprene)	526	340.2
Lignin	527	400+
Melamine (See aldehyde, above)		
Metal compounds	528	395
Ethylenically unsaturated monomer	526	240
Organometallic	528	9
Methacrylate	526	319+
Methacrylic acid	526	317.1+
Methylmethacrylate	526	319+
Monoepoxides (See epoxide, above)		
Olefin	526	72+
Oxirane compounds (See epoxide, above)		
Phosphorous compounds	528	398+
Ethylenically unsaturated	526	274+
Plant extract of undetermined constitution	528	1+
Polyepoxide compound (See epoxide, above)		
Propylene (homopolymer)	526	351
Copolymer	526	72+
Protein or biologically active polypeptide	527	200+
Ethylenically unsaturated derivative	526	238.1
Silicon compound	528	
Ethylenically unsaturated	526	279
Si- H or si- C	528	10+
Tannin	527	400+
Ethylenically unsaturated monomer	526	238.2+
Tar or pitch	527	500+
Ethylenically unsaturated derivative	526	290
Tetra fluoroethylene	526	242+
Urea (See aldehyde, above)		
Vinyl chloride	526	344+
Vinyl compounds	526	72+
Vinylidene compounds	526	72+
Purification of	528	480+
Composition	524	310
Reclaiming	521	40+
Rubber	520	1+
Diene rubber	526	72+
Spandex T M type	528	44+
Thiokol T M type	528	374+
Vulcanized	525	332.5+
E P D M	525	331.8
Rubber hydrochloride	525	332.3
Silastic (organosilicon polymer)	528	10+
Silicone resin	528	10+
Compositions	524	858+
Room temperature vulcanizing (rtv rubber)	528	901*
Synthetic rubber (for purposes of class 520, is considered to be a synthetic resin)		
Teflon T M (polytetrafluoro-ethylene)	526	255
Wave energy utilized	522	1+
Synthol	518	700+
Syringe		
Dental	D24	14
Dispenser	222	206+
With follower	222	386+
Hand held	604	187+
Pump	417	437+
Specific gravity tester	73	441+
Sprayer		
Liquid pump feed	239	329+
Piston feed	239	320+
Surgical	604	187+
Air	604	26
Design	D24	60+
Ear	604	187+
Eye	604	295+
Fluid operated	604	131+
Fountain	604	131+
Hand held	604	187+
Hydrant	604	150
Indication of defect or use	604	111
Irrigation	604	187+
Motorized	128	DIG. 1
Nozzle	604	275
Piston	604	218+
Pocket container for	206	364+
Preventing reuse	604	110
Projectile	604	130
Receptacle for	206	364+
Siphon	604	131+
Thermal medicator	604	113+
With light and electrical application	604	20+
Syrups		
Condiments and flavors	426	658+
Electrolytic treatment	204	138
Malt	426	44
Sugars only	127	30+
Aircraft control	244	175+
Stoves and furnaces	126	
T Squares	33	474+
Design	D10	65+
Tab		
Bolt or nut, side lock, tab deformable in situ	411	122+
Exhibitor type	40	662+
Protrusion to receive identification	40	359+
Suspender ends	2	340
Tabernacle	D99	25
Tables	108	17
Animal restraining	119	103
Bed	5	3+
Bed combined	5	507
Billiard and pool	273	3R+
Design	D21	232
Cabinet convertible to	312	241
Cabinet with separable table	312	277
Chair combined	297	135+
Chair convertible	297	119+
Cooling	62	458
Cover or cloth	D 6	617
Croquet	273	57
Disappearing instrument or device	312	21+
Examining or surgical	D24	3
Furniture	108	
Design	D 6	396+
Game	273	309
Design	D21	1
Game boards	273	287
Collapsible	273	285+
Interchangeable pattern	273	284
Rotatably mounted	273	280
With separable pattern	273	283
Gauging eg grizzlies	209	680
Gravity assorting in liquid suspension	209	172+
Invalid back rest combined	5	70
Ironing	38	103+
Combined with sewing machines	112	217.1+
Plural surface	38	135+
Single surface	38	137+
Light table, illumination for	362	97
Luggage convertible	190	11+
Machine part		
Box nailing machine	227	154
Cigar and cigarette making	131	41+
Cutting machine	83	
Grain separator straw carrier	460	90
Metal can making and soldering	413	
Metal flanging	72	102
Plastic material cutting	83	
Plastic material cutting	425	289+
Powered table for operating attachments and auxiliaries	74	16
Shingle machine	83	704+
Slicer woodworking	144	171
Typewriter paper feeding	400	647+
Woodworking saw table	269	289R
Modified for blade	269	83
Manual assorting	209	703+
Pads	248	346.1
Phonograph or sound recording and reproducing		
Flat tablet traveling table	369	213
Mandrels	369	260
Tablet	369	267
Rack convertible to table	108	16
Refrigerator combined	62	258
Self levelling	114	195
Steam cooking	126	33
Stratifier	209	422+
Starch making	127	26
Surgical	269	323+
Telegraph instrument	178	114
Tennis	273	30
Toy or doll	446	482
Transfer	104	48+
Electricity transmission to vehicle	191	9
Trunk	190	11+
Turntables	104	35
Automobile	104	44
Plural related surfaces	108	103+
Self service eg lazy susan	108	94+
Self service power driven	108	20+
Single surface	108	139+
Wall	108	152
With structural installation	108	72+
Work (See also table machine part)		
Abrading	51	240R
Butter working	99	452+
Cloth inspecting	26	70
Illuminated operating table	362	33
Ironing textiles	38	103+

	Class	Subclass
Ironing with work catcher	38	111
Leather working	69	19
Milling planing or gear cutting	409	219+
X ray	378	209
Tablets		
Calendar tear off type	40	121
Coffee	426	594
Dye compositions	8	526
Food design	D 1	
Medicinal	424	464+
Design	D28	1+
Memorial	40	124.5
Molding presses for	425	406+
Phonograph	369	272+
Making by turning	82	1.11
Railway signalling system	246	19
Tabulators		
Calculator	235	85+
Teletypewriter	178	25+
Typewriter	400	284+
Indicating	400	705.4+
Tachometer	73	488+
Design	D10	98
Electric	324	160+
Rotation counter	235	104
Rotation counter, with electrical speed indicator	324	166+
Tack	411	439+
Pullers	254	18+
Shoe lasting machine	12	16
Shoe sole sewing machine	112	30
Strips		
Making	10	29
Nailing implement	227	136
Tackle		
Cable and hook	294	82.11+
Fishing	43	4+
Design	D22	134+
Pushing and pulling implements		
Block and	254	390+
Single throw lever	254	128
Tensioners	254	242
Traversing hoist cable type	212	76+
Tag		
Affixing tags	156	DIG. 23
Collision released identification	116	32
Envelopes	229	74
Exhibitor type	283	74+
Fastenings	40	662+
Inserters	606	117+
Machines		
Cigar	131	106
Cigar etc packaging combined	131	283
Label pasting	156	
Paper tag applying	493	375+
X-art collection	493	961*
Paper wrapping machine	53	128+
Plug tobacco	131	113+
Printed matter	283	74+
Taillights	362	61+
Tailpieces	84	299+
Stringed instrument	84	297R+
Tailpipe		
With muffler	181	227+
With exhaust pipe	181	228
Tailstocks		
Lathe	82	148
Milling machine	409	242
Take up		
Bed bottom cord tightener	5	212
Braiding netting and lace making	87	31
Brake position adjusters	188	196R+
Brake wear	188	79.51+
Electric cable extensible	174	69
Electricity flexible extension to vehicle	191	12R+
Embroidering machine thread	112	96
Harvesting binder cord knotter	56	450
Hitching post	119	124
Leather sewing machine thread	112	57
Railway freight car shrinkage	105	412
Railway traction cable	104	196
Sewing machine	112	241+
Textile knitting fabric	66	149R+
Trolley rope slack	191	93
Twine holder	242	129.1+
Weaving fabric	139	304+
Weaving warp feeding	139	99
Winding and reeling	242	129.1+
Recording tape or motion picture film	242	179+
Talcum Powders	424	69
Talking Machine (See Phonograph)		
Book	434	317
Tall Oil	530	205+
Derivatives	530	230+
Pulp preparation combined	162	14+
Tally (See Counter)		
Game	116	222+
Printed forms	283	48.1+
Register	235	
Strip feeding	400	586+
Tam-o-shanter	D 2	255
Tambourines	84	418
Tamper (See Rammer)		
Blasting charge	86	20.11+
Earthenware pipe	425	456
Female	425	425+
Male	425	469
Railway track	104	10+
Road or earth	404	133
Tobacco		
Pipe	131	248
Pipe combined	131	184.1
Pipe cover combined	131	177
Well torpedo combined	102	304
Tamper-proof Packages	206	807*
Fasteners with anti-tamper means	269	910*
Tampions (See Tompions)		
Tampon	604	358+
Depositor	604	11+
Making	28	118+
Sanitary	604	358+
Materials	604	367+
X-art collection	604	904*
Tandem		
Cycles	280	200+
Design	D12	109
Motor	180	219+
Three tandem wheels	280	239
Cylinder internal combustion engine	123	57R
Horse hitch	278	3+
Power plants	60	698+
Two wheeled skates	280	11.23
Tang		
Drill	408	213
Socket		
Barbed or pronged tang	279	104
Molded or cast in tang	279	105
Offset tang	279	93+
Shouldered tang	279	89+
Tool handle fastenings	403	
Tank (See Vessel)	220	
Cars, trucks, ships		
Ballasting	114	125
Grain tank body	296	15
Marine tanker	114	74R
Railway car	105	358+
Railway tender	105	236
Self levelling vehicle	280	7
Tank truck	280	830+
Vessel raising or docking air tank	114	52+
Water wagon	280	830+
Chemical reaction	422	
Cooled heat transfer, liquid containing	62	430+
Commodity contacting	62	373+
Liquid congealing	62	356
Depth gauges	73	290R+
Filling or emptying with fluids	137	561R+
Fire extinguishers	169	
Fluid distribution	137	561R+
Fowl and hog scalding		
Fowl	17	11.2
Hog	17	15
Hog scalder with scraper	17	13+
Fuel with burner	431	344
Heated	431	203+
Gas and liquid contact		
Contacting	261	119.1+
Liquid supply	261	72.1+
Gas holding	220	3
Heating and illuminating gas	48	174+
Package	206	.6+
With dispensing	222	3+
Gasoline holding for motor vehicle	280	830+
Glass melting	432	195
Heat exchange		
Trickler	165	118
With agitator or conveyer	165	109.1
Heating system expansion	237	66
Ice mold	249	117+
Lined metallic	220	415+
Liquefied gas storing	62	45.1+
Liquid heating	122	
Cooking vessels	126	344+
Lock valve combined	137	384.2+
Making		
Outlet nozzle attaching	29	890.142
Sheet metal	413	1+
Masonry and concrete	52	264
Curved	52	245
Material or article charging or discharging	414	288
Material separating		
Liquid separation	210	
Solids	209	
Military	89	36.8
Endless track drive	180	9.1+
Five or more wheels	180	22+
Gun mounts	89	40.3
Steering by driving	180	6.7
Toy	446	433
Model basin or testing tank	73	148
Mold	249	144+
Nuclear reactor combined	376	403
Oil tank with fire extinguisher	169	66+
Photographic developing	354	331+
Rack for	211	71+
Sand blast equipment	51	436
Self healing	428	912*
Settling (See settling tanks and chambers)		
Shower bath	4	602+
Spring wheel air tank	152	10
Stage or theatrical	272	26
Stock material	428	34.1+
Sugar starch and carbohydrate treating	127	
Supply for ambulant discharge sprayer	239	302+
Swimming pool	4	488+
Water purification	210	169
Tank-type carrier truck	D12	95
Tower	52	40
Underground	405	53+
Volume or rate of flow meter	73	217+
Washing		
Brushing scrubbing general cleaning	15	
Clothes washing machines & tubs	68	
Dish and solids washing machine	134	
Water closet and urinal flushing	4	353+
Disinfection	4	222+
Wheelwright tire setting	157	7
Wooden	217	4
Tanker	114	74R
Tannic Acid	560	68+
Tanning	8	94.19 R+
Apparatus	69	29+
Descaling agent ctg	252	83+
Electrolytic	204	135
Fish skins	8	94.12
Hides	8	94.19 R+
Processes manipulative	8	150.5
Tannins	560	68
Glucosidal	536	4.1+
Tanning with	8	94.19 R+
Tantalate Ceramic Compositions	501	134
Tantalum		
Alloys	420	427
Compound stock	428	662
Electrolysis	204	
Inorganic compound recovery	423	62
Misc. chemical manufacture	156	DIG. 87
Tap		
Barrel	137	317+
Bung	217	98+
Changer transformers	336	137
Transformer systems	323	
Connector electric	439	638+
Dancing shoe	36	8.3
Gas taps illumination	362	381
Piercing electrical connector	439	387+
Pipe	408	215
Screw threading	408	215+
Machine	408	72R+
Wrenches ratchet	408	120+
Wheel bolt	301	117
Tape (See Adhesive; Strips; Taping)		
Adhesive	428	343+
Processes of coating	427	207.1+
Box making	493	116+

	Class	Subclass
Cutting to sever	83	
Inserting in apparel	223	50
Needles	223	103
Record	360	134
Magnetic		
Coated	360	134+
Recorded, moving head	360	83
Recorded, stationary head	360	90
Measuring	33	755+
Design	D10	71+
Reel	242	84.8+
Package	206	389+
Tape cartridge package	206	387
Record medium	360	134
Recorders sound transport system	360	90+
Recording head	360	110+
Seed	47	56
Machine	53	545+
Planting	111	199
Sound reproducing, reel drive means	242	179+
Spinning twisting apparatus	57	31+
Spinning twisting process	57	31
Coating or impregnating	57	295+
Spool holders	D19	67+
Strand structure spun or twisted	57	260
Coated or impregnated	57	259
Covered or wrapped	57	235
Tape deck	D14	161+
Tearing or breaking	225	
Container opening	206	605+
Telegraphic	178	111+
Ticker	178	34
Taper Forming (See Pointing)		
Gauges	33	531+
Needle and pin making	163	
Paper tube making	493	296
Pencil (See pencil sharpener)	30	451+
Machine	144	28.1+
Taper tube making	29	DIG. 41
Tapering resistor	338	217+
Rheostat	338	138+
Thread milling	409	65+
Turning	82	15+
Wood	142	
Tapestries	139	408
Taping	242	7.1+
Hollow object	242	7.23
Pail or pipe	242	7.22
Laminating applying	156	
Object making	242	7.2+
Ring winding combined	242	6
Shoe upper making	12	59.5
Strip pasting and applying	156	
Tappers Electric Line	439	387+
Tappet		
Plow	171	71
Poppet valve operating internal combustion engine	123	90.48+
Tapping		
Container with cutter or punch	222	81+
Drilling and	408	
Fluid handling system	137	317+
Mains under pressure	137	317
Metallurgical plugging and	266	271+
Power plant exhaust re expansion	60	677+
Screw threading internally	408	222
Tar (See Pitch)		
Compounds containing		
Abrasive	51	305
Biocidal	424	
Coating or plastic	106	
Fuel liquid	44	311
Polymer ctg (See synthetic resin or natural rubber)		
Distillation	208	42+
Destructive	202	
Production by	201	
Mineral oil	208	22+
Making, treating and recovery	208	39+
Tar Sand		
Mineral oil from	208	400+
Treatment with liquid	208	390+
Target		
Aerial projectile type	273	348.1+
Projector combined	273	317+
Tethered projectile combined	273	331+
Thermal	273	348.1
Animal holder and releaser	119	15.6
Bowling	273	41
Cathode ray	313	461+
Design, hunting or shooting	D22	113+
Disk		
Holder and releaser	124	43
Magazine	124	46+
Following, with photocell control	250	203.1+
For nuclear energy treatment	376	156
Global position determination	250	206.1+
Golf (See also golf)	273	181R
Moving	273	359+
Surface	273	127R
Surveying	33	293
X ray	378	143
Tartaric Acid	562	585
In drug	514	574
Tassel (See Product)	428	28
Garment trimming	D 5	7+
Making and attaching	223	46
Making	28	147
Ornamented handle	16	121+
Shoe lace tip	24	715.5+
Tatting		
Apparatus	87	52
Shuttles	87	58+
Shuttle winding	242	52
Tattooing Pen	81	9.22
Taurine	562	104
Taurocholic Acid	552	550
Taxing	8	94.29+
Taxidermy, Teaching	434	296
Exhibition panel	40	160
Taximeter		
Computer controlled, monitored	364	467
Fare recorder	346	
Register combined	346	15+
Fare register	235	33+
Tea	426	592+
Apparatus general	99	485+
Bag	426	77
Design	D 1	199
Balls	426	77+
Extracts	426	597
Infusers	99	279+
Ddesign	D 1	199
Teaching Devices	434	
Audio recording & visual means	434	308+
Audio recording combined	434	319+
Audio visual machines	D19	60
Blocks & cards	434	403
Dental	434	263+
Design	D19	
Graphic materials	434	314+
Design	D19	62+
Image projector combined	434	324+
Keyboard operation	434	227+
Music	84	470R+
Panel, chart or graph	434	330+
Science demonstrator	D19	62+
Telegraphy	178	115
Toy	D21	59+
Vehicle dual control		
Aircraft	244	229
Automobile	180	322
Teapot		
Handle, asymmetric	D 8	DIG. 9
Tear Gas		
Gun	42	1.8
Tearing		
Breaking or	225	
Container opening	206	601+
Container seam	206	631
Label pasting paper hanging	156	510
Machines	225	93+
Paper gauge	225	91+
Paper straight edge	225	91
Sheets, strands or webs	225	
Tear strip		
Cigarette package opening	206	264
Envelope	493	923+
Pliable container	493	930+
Roll, strip, or sheet having	206	824+
Tensile test	73	835
Tobacco stemming	131	319+
Weakened line	206	620+
Teat Cups	119	14.47+
Pulsator combined	119	14.38
Technetium		
Organic compounds	534	14
Tedders	56	370+
Rake combined	56	365+
Teeming (See Casting)		
Teepee	135	100
Tees, Golf	273	33
Device for setting	273	32.5
Teeth (See Tooth)		
Dentistry	433	
Selection guide	433	26
Display package with	206	83
Gearing	74	457+
Lubrication	74	468
Razor guard	30	82
Static mold	249	54
Teething Devices	606	235+
Design	D24	45
Teflon T M	526	255+
Electrical cable insulation	174	110FC
Pipe & tubular conduit digest	138	DIG. 3
Surgery digest	128	DIG. 14
Telautograph	178	18+
Telegraphophones	369	
Telegraphs	178	
Combined with telephone		
Alternative	379	108+
Simultaneous	370	125
Earth transmission	375	6
Optical light transmission	455	600+
Photo telegraphs	358	400+
Radio transmission	375	
Ships telegraphs	116	21
Systems	178	2R+
Pulse	375	
Train telegraphs	246	7+
Writing on telautograph	178	18+
Telemetering	340	870.1+
Radio	128	903+
Telephone	128	904+
Telephone	379	
Answering device		
Answering-recording system	D14	141
Calling number recorder	379	142
Remote inquiry	379	76
Sound recorder or reproducer	379	70+
Attachment	379	441+
Base pad	248	
Index	40	336+
Pad	281	44
Roll type pad	281	11
Automatic systems	379	258+
Call	379	350+
With recorded message	379	69
Card	40	336+
Common control	379	268
Party line	379	182+
Booths	52	27+
Design	D25	16
Movable wall	52	71
Calling	379	352+
Card attached to telephone	40	336+
Coin collectors for pay stations	194	
Coin operated	379	143+
Computerized switching	379	284
Cordless	379	61
Design	D14	142+
Dial		
Dial structure	379	362+
Illuminated	362	24
Locking	379	445
Pulse transmitter	379	362+
Self luminous	40	337
Telephone system	379	258
Directory	40	371
Earth transmission	455	40
Handset	379	433
Headgear support	379	430
Key systems	379	156+
Light wave telephony	455	600+
Lights for telephones	362	88
Mechanical telephones	181	138
Message counter	379	139
Muffler for mouthpiece	181	242
Over composite line used for other services	379	90+
Pad or book holder combined	248	441.1+
Party line	379	177+
Plural phone systems	D14	241
Push button call transmitters	379	368+
Radio transmission	455	
Receiver and transmitter combined	379	433+
Repeaters	379	338+
Dial pulse	379	341+
Conversion	379	339
Voice frequency	379	338+
Repertory dialers	379	355+
Sets	379	419+

	Class	Subclass
Sterilizer	379	439
Supports	379	454+
Switchboard	379	319+
Switches	379	422+
Telemetry	128	904*
Toy telephones	446	141
Train telephony	246	7+
Telephony Ultrasonic	367	
Telephotography (See Television)		
Telescopes	350	537+
Design	D16	132
Fiducial for sighting	356	247+
Lens	350	409+
Telescopic and Telescoping Devices		
Antenna	343	901+
Awning	160	62
Frames adjustable size	160	372+
Multipart outrigger	160	80
Roll type multipart outrigger	160	71
Bag or garment reversing inside out	223	40
Chute	193	30
Expansible chamber device	92	51+
Freight car stakes	105	389
Garment or clothes hanger	223	89+
Coat or dress	223	94
Gas holders	48	176+
Gun sight	33	245
Design	D16	132
Ladder	182	195
Luggage	190	104+
Metallic receptacles	220	8
Motor	91	169
Pipe joint	285	298+
Ball and socket	285	165
Pipes and tubular conduits	138	120
Racks	211	195+
Railway car vestibule connections	105	17
Railway tie	238	73
Screw type jacks etc	254	102
Spotlight control or mounting	362	418+
Track sander	291	45
Trunk	190	22
Upending bedstead	5	157
Wardrobe	190	15R
Teletype T M	178	
Television	358	
Accounting for use	358	84
Band with reduction	358	133+
Cabinet	312	7.2
Camera		
Color	358	41+
Submarine hook & grapple for	294	66.2
With recorder	358	906*
Channel selector	116	DIG. 31
Color	358	1+
Holographic	358	2
Recording or reproducing	358	310+
Drop out correction	358	314
Editing	358	311
Photographic	358	332+
Recorder fault correction	358	327+
Slow motion	358	312
Time control	358	320+
Signal processing	358	21R+
Computer application of special purpose television systems	358	93
Computer TV applications	358	903*
Crt circuits, focusing the ray	315	382.1
Current supply, diverse type	315	169.1
Degaussing	361	150
Design	D14	126
With communications equipment	D14	130
With phonograph or radio	D14	131
Editing color record	358	311
Editing dynamic magnetic record	360	14.1+
Fiber optics	358	901*
Freight car identifier	358	93+
Frequency response modification	358	904*
Ghost elimination	358	905*
Monochrome to color	246	200R
Magnetic recording of signal	360	33.1+
Misc. electron space discharge device system with TV signal output	328	187
Panoramic	358	87
Photochromic	358	902*
Photographic recorder	358	345+
Color	358	332+
Picture tube	313	364+
Focus coil	313	442
Focus coil per se	335	213+
Photographic screen making	430	23+
Etching	156	644+
With filter on face	313	465+
Program indicator	40	901*
Pseudo color	358	81+
Radar combined object detection	342	55
Receivers	358	188+
Remote control	358	194.1
Stereo control	358	188
Record editing	360	14.1+
Recording or reproducing	358	335+
Camera with recorder	358	906*
Color	358	310+
Noise or dropout correction	358	336
Noise reduction	358	340
Pause control	358	908*
Photographic	358	345+
Photographing displayed image	358	244+
Signal content changing	360	9.1+
Thermoplastic	358	344
Track skippers	358	907*
Signal processing	360	33.1+
Slow motion recording	360	10.1+
Color	358	312
Special systems	358	93+
Stereo color	358	3
Stereoscopic	358	88+
Support stand	D34	12+
Synchronizing	358	148+
Training mechanism for ordnance	89	41.5
Transmitter	358	186+
Tube	220	2.1 A
Tuners	116	DIG. 29
Remote tuner	116	DIG. 3
Two-way over telephone	358	85+
Underwater transmitter	405	185
Video display screen support	248	917
Video signal processing	358	160+
Wired broadcast systems	358	86
With sound	358	143+
X-ray television	378	99
Telltale (See Indicator; Sampler; Testing)		
Toilet	73	863+
Tellurions	434	284
Tellurium (See Selenium and Compounds)		
Misc. chemical manufacture	156	DIG. 72
Telomer (See Alkylation)		
Temperature Regulation or Modifying (See Cooler & Cooling, Furnace, Heat, Stove)	236	
Animal watering devices	119	73
Arc lamp	314	26+
Beverage apparatus infuser	99	281+
Compensating, supports	248	901*
Cooking apparatus	99	331+
Cooking apparatus and material control	99	326+
Dispensing automatic control temperature responsive	222	54
Distillation apparatus condensing	196	141
Distillation apparatus vaporizing	196	132
Drying and gas or vapor contact		
With solid apparatus	34	43+
With solid process	34	26+
With solid process	34	30+
Electronic tube	313	11+
Electronic tube cooling combined circuit element	315	32+
Fastener made of thermo-responsive memory material	269	909*
Fermentation processes	435	3
Heat exchange	165	13
Internal combustion engines	123	41.1+
Lamp or electronic tube system	315	112+
Magnets and electromagnets	335	217
Measurement	374	
Mercury vapor lamp	313	11+
Pressurized & high temperature liquid treatment of textiles	8	DIG. 16
Sulfur dioxide	423	539
Sulfur trioxide	423	523
Solid material comminution or disintegration	241	17
Solid material comminution or disintegration	241	23
Solid material comminution or disintegration	241	65+
Stabilized oscillator	331	176
Superheater	122	479.1
Tobacco treatment	131	303
Water heating vessel:	126	374
X ray tube	378	127
Tempering (See Annealing)		
Appliance design	D15	144
Hard glass	65	114
Apparatus	65	348+
Template		
Design	D10	64
Design, artistic	D19	39
Temples		
Eye glass or spectacles	351	111+
Fabric manipulation	139	292+
Templet (See Pattern)		
Abrading machine		
Peripheral face	51	100R+
Radial face	51	127
Cutting torch	266	58+
Drilling	408	3
Gauge	33	562+
Gear cutting, milling, planing	409	125+
Toilet	132	319
Turning	82	11.1
Taper	82	17
Woodworking	144	144R+
Tempo Marks on Player Rolls for Automatic Musical Instruments	84	164
Tenderizer		
Kitchen hand tool	D 7	682
Meat tenderers	17	25+
Tenders		
Mother ships etc	114	258
Railway	105	231+
Boiler feed heater	122	434
Draft connections	213	2+
Safety bridge cab and	105	459
Vestibule connection cab and	105	9
Traction engine	280	400+
Tennis		
Ball	273	61R+
Nets courts etc	273	29B+
Racquet	273	73R+
Design	D21	212+
Restringing tension meter	73	862.43
Shoes	36	114+
Simulated game	273	85R
Tenoning		
Chair round with sawing	144	8
Wheel spoke with sawing	144	18
Wheel with boring	408	31+
Wood boring and	408	31+
Woodworking	144	198R+
Cutter tool	408	199+
Turning	144	205+
Tens Carry Mechanism for Registers	235	133R+
Tensile Testing	73	826+
Tensiometer	73	862.39+
Tension (See Stretching)		
Cable, card, band, rope, sheet, or strand		
Band saw	83	814+
Bed bottom	5	165
Bed bottom margin	5	233
Bobbin and cop winding	242	45
Cable railway	104	117
Cutting combined	83	
Drier heating control	34	49
Electricity thermal fuse	337	190
Elevator rope drive	187	22
Fabric holder for cleaning wiper	15	233
Fabric reeling and unreeling	242	75
Flexible material	254	199
Hack saw	144	156
Harvesting compressing and binding	56	450
Harvesting reel for standing grain	56	224
Laying	405	177
Underwater	405	165
Sewing machine	112	
Ships cable	114	213+
Ships sail rigging	267	69+
Spring devices	267	69+
Strand brakes	188	65.1
Strap	24	68R+
Strap	76	81+
Textile beaming	28	194+
Textile braiding carrier	87	56+
Textile braiding netting	87	61
Textile knitting	66	146
Textile knitting relief	66	160+
Textile spinning driving band	57	105

	Class	Subclass
Textile weaving	139	
Traveling band abrading machine	51	148
Winding and reeling	242	147R+
Wireworking	72	183+
Clothesline tighteners	211	119.1+
Comb cleaner strands	132	119
Dams and levees with stays	405	113
Fabric, sewing machine	112	121.26
Gates	49	34
Harvester endless cutter	56	292
Land vehicle wheel	301	55+
Compression combined	301	54
Metal working, tension applied	29	DIG. 42
Plural blade cutting tool	30	266+
Scissors or shears	30	208+
Railway draft appliance cushion	213	42
Railway dumping car door actuator	105	302
Razor edge	30	52
Ship tension relievers	114	213+
Travelers	114	205
Snap hook tension operated lock	24	600.3
Spoked wheel assembling	29	894.33
Spring	267	69+
Spring wheel	152	21+
Trolley collector stand	191	70
Umbrella rib	135	23
Vehicle fender	293	40
Vehicle leaf spring	267	48
Tent	135	87+
Cape convertible to	2	89
Convertible to diverse article	135	95
Design	D21	253+
Knapsack convertible to	224	154
Oxygen	128	205.26
Tenter or Tentering		
Frame for textile sheets	38	102+
Textile web running length	26	89+
Biaxial	26	73
Heater or dryer combined	26	92
Web condition responsive control	26	76
Terminals		
Actuating nut adjustable wrench	81	168+
Adapters	429	121
Air		
Electrical	174	4R
Lightning protection type	174	2+
Attachments or feet for ladders	182	201+
Safety devices	182	108+
Cock for fluid nozzle	239	392
Connections	429	
Seal feature	429	185
Data processing equipment	D14	100
Electric (see connection)		
Battery	429	179
Conductor and structure	174	74R+
Conductor fluid insulated type combined housing	174	18
Conductor fluid insulated type end structure	174	19
Conductor holding on insulator	174	169+
Cord conductor	439	874+
Cord conductor	439	877+
Electric	439	884+
Fuse cartridge	337	248
Gas and vapor lamp	439	611+
Housing conductor	174	60
Incandescent lamp	439	611+
Insulator combined	174	176+
Meter enclosure for	361	364+
Meter type	324	149
Sheet metal manufacture	29	874+
Telephone multiple switchboard	379	310+
Electrical manufacture of	29	874+
Gate valve pivoted	251	300
Gate valve reciprocating	251	147
Hook for railway dumping car door actuator	105	303
Pneumatic dispatch system	406	
Railway	104	27+
Railway revolving passenger transfer	104	21
Switchboard	361	331+
Termite Shield	52	101
Terneplate	428	648
Terpene (See Alicyclic Hydrocarbon)	585	350+
Alcohols	568	875
Esters of lower fatty acids	560	249
Keto	568	338+
Rosin combined	530	214
Terpin Hydrate	568	832
Terra Cotta	501	141+
Tile, hollow	52	606+
Terrain Model, Educational	434	130
Terrarium	47	69
Design	D11	145
Terrazzo	52	315
Pavement	404	47+
Revealed strips	52	318
Strips	404	47+
Terrets	54	63
Terry Cloth	139	396
Looms	139	25+
Test Tube Tray or Rack	D24	32
Tester		
Electrolyte conductivity	324	439+
Tooth pulp	433	32
Testing (See Definition Notes)	73	
Amplifier condition	330	2
Check controlled apparatus Fraud prevention	194	302+
Chemical		
Apparatus	422	50+
Composition	436	
Electrolytic apparatus	204	400+
Electrolytic process	204	153+
Fermentative analysis	435	4+
Process	436	
Cooker combined	99	342+
Coordination	434	258+
Diagnostic		
Composition for	424	2+
Electrophotographic copier	355	203+
Dryer	34	89
Earth boring combined	175	40+
Electric (See also manufacturing of electric devices infra)	324	
Battery	429	90+
Electrolytic	204	400+
Lamp and electronic tubes	324	403+
Meters	324	74+
Meters with amplifier condition testing	330	2
Meters with amplifiers	324	123R+
Ore detection	324	323+
Radiant energy	250	472.1
Telephones and telephone circuits	379	1+
Fertility tests	435	806*
For high frequency systems	324	633+
For wire telegraphy	178	69M
Gas separator combined	55	270
Hardness	73	78+
Instruments for	D10	46+
Insulation	324	500+
Manufacture of electric devices	29	593
Electric lamp	445	
Apparatus	445	63+
Process	445	3
Space discharge devices	445	
Apparatus	445	63+
Process	445	3
Material by sifting	209	237
Milk	422	74
Nuclear reactor condition	376	245
Optical	356	
Lens	356	124+
Papers for	435	805*
Plugs for pipes	138	90
Pulse or digital communications	375	10
Radar systems	342	165
Radio receiver	455	226
Radio transmitter	455	115
Radio tube	324	405+
Refrigeration	62	125+
Seed	47	14
Stress strain of materials	73	760+
Thermal	374	
Flammability	374	8
Testosterone	552	638
Tetherball Game	273	414
Tethers		
Pipe joint parts	285	119
Tool	279	1R
Tetracyclines	552	203+
In drug	514	152
Tetrafluoroethylene	570	136
Preparation	570	153+
Solid polymers (See also synthetic resin or natural rubber)	526	255
Tetrahydroanthraquinone Oxime	552	210
Tetrakisazo	534	806+
Tetralin (See Aromatic Hydrocarbon)	585	400+
Tetramer (See Polymer)		
Tetramisole	548	155
In drug	514	368
Tetrazine	544	179
Tetrazoles	548	250+
Tetrode	313	297+
Gas	313	581+
Gas	313	599
Hot cathode type	313	593
Oscillator	331	
Remote cutoff	313	297+
Tetryl	564	441
Textiles (See Cloth; Fabric)		
Antistatic	57	901*
Bicomponent material	57	905*
Bleaching & dyeing	8	
Braiding netting and lace making	87	
Central or south american patterns	D 5	20+
Chemical modification of	8	115.51+
Cleaning or laundering	8	137+
Cloth finishing (See cloth finishing)	26	
Coating	427	
Apparatus	118	
Electrolytic	204	21
Textile operation combined	28	169+
Warp preparation combined	28	178+
Container for	206	389
Counters of threads in fabric	356	242
Cyanoethylation of fibers	8	DIG. 13
Dry mixtures of textile reagents	8	DIG. 14
Dyeing & bleaching	8	
Fiber preparation	19	
Assembling	19	144
Bleaching	8	101+
Carding	19	98
Chemical modification	8	115.51+
Combing	19	115R
Drafting	19	236
Drying	19	.27
Fluid or special treatment	19	66R
Fluid treating apparatus	68	
Ginning	19	39+
Liberating	19	1+
Manipulative fluid treatment	8	147+
Picking	19	80R
Stapilizing	19	.3+
Stopping	19	.2+
Working	19	65R+
Finishing	26	
Sheet stretching	38	102
Tenter, for wabs	26	89+
Web spreader	26	87+
Web stretcher	26	71+
Flame retardant	57	904*
Fluid treating and washing	8	147+
Apparatus	68	
Carbonizing	68	2
Machines	68	3R+
Water reclaiming	68	1
Foamed or fibrillated	57	907*
Glyoxal & polyaldehyde treatment of textiles	8	DIG. 17
Grafting textile fibers	8	DIG. 18
Improving felting properties	8	112
Ironing and smoothing	38	
Ironing tables	38	103+
Pressing or smoothing processes	38	144
Smoothing implements	38	69+
Smoothing machines	38	1R+
Isocyanate & carbonate fiber modification	8	DIG. 11
Jet interlaced or intermingled	57	908*
Kier treatment	8	157
Knitting	66	
Darning	66	2
Fabric manipulation	66	147+
Fabrics or articles	66	169R+
Feeding	66	125R+
Looper pin and hook	66	3+
Needles	66	116+
Beds	66	114+
Independent needle machines	66	7+
Needle cooperating elements	66	90+
United needle machines	66	78+
Pattern mechanism	66	231+
Reknitting	66	1.5
Stopping	66	157+
Knots & knot tying	289	
Line appliances	57	906*
Lubrication	427	
Apparatus	118	
Chemical modification combined	8	115.6
Compositions	252	8.6+

	Class	Subclass
Dyeing combined	8	495+
Textile operation combined	28	167+
Manufacturing	28	100+
Computer controlled, monitored	364	470+
Molten metal, bleaching digest	8	DIG. 19
Mordanting textiles	8	
Nylon	8	DIG. 21
Organic titanium compounds on	8	DIG. 5
Polyester fibers	8	DIG. 4
Polyolefin	8	DIG. 9
Polyvinyl halide esters or alchol fiber modification	8	DIG. 1
Pressurized & high temperature liquid treatment	8	DIG. 16
Pressurized gas treatment	8	DIG. 15
Printing		
Dyeing type	8	445
Printing type	101	
Reinforcing or tire cords	57	902*
Resin bleach	8	DIG. 6
Sewing threads	57	903*
Silicones	8	DIG. 1
Spinning twisting twining	57	
Apparatus	57	1R+
Processes	57	362
Strand structure	57	200+
Stock material	428	224+
Coated or impregnated	428	245+
Swelling & stretching of fibers	8	DIG. 3
Treating compositions	252	8.6+
Biocide containing	424	
Vinyl sulfones & precursors thereof	8	DIG. 2
Wave energy treatment	8	DIG. 12
Weaving	139	
Weighting or mordanting	8	443
Wire fabrics & structure	245	
Texturing Thread	28	247+
Thatch Roof	52	750
Thaumatrope	446	244
Thawing		
Antenna	343	704
Compositions	252	70
Defrosters	62	272+
Automatic	62	151
By ventilation	98	2
Frost indicator combined	62	128
Frosted window panes	52	171+
Process	62	80+
Earth	405	131
With excavating	299	3+
Engines	123	41.1+
Ice tank	62	349+
Process	62	73
Pipes	138	32+
Radiators by own steam	165	73
Theater		
Arena buildings auditoriums	52	6+
Toy	446	82+
Car drive in	52	6+
Chairs indicating or illuminating		
Electric indicator	340	667
Furniture with light	362	131
Indicators	116	200+
Curtains	160	
Derrick hoist	254	266+
Illusion devices	272	8R+
Lights	362	227+
Control systems for	315	
Dimming systems	315	291+
Switching systems	315	313+
Seat	D 6	334+
Stage appliances	272	21+
Design	D25	58
Stages	52	6+
Movable	52	29+
Tickets	283	53
Theelin	552	625
Theft		
Alarms		
Electrical	340	568+
Mechanical	116	75
Prevention, motor vehicle	180	287+
Theine	544	274
Theobromine	544	274
Theodolites	33	290+
Design	D10	66
Horizontal and vertical angle	33	281
Horizontal angle	33	285
Optical	356	138+
Optical readout	33	1T
Theophyllines	544	267+
In drug	514	263
Therapeutic		
Lamps	250	504R+
Vitamins	424	
Thermal		
Activating adhesion in labeling	156	DIG. 21
Activating closure	220	201
Activator for bank protector	109	33
Battery and cells	136	200+
Compositions or charges	149	
Controlled		
Boiler feeders	122	451.1+
Closure	49	1+
Dampers	126	287.5
Electrical alarms	340	584+
Electrical signals	340	584+
Flexible panels	160	1+
Freeze responsive drain valves	137	59+
Mechanical alarms	116	101+
Mining	299	3+
Non-fusible closure release	49	2
Refrigeration, heat transmission	62	383
Temperature regulation	236	
Timers	60	516+
Vertically sliding sash		
Weighing scale compensator	177	226
Electric motors	310	306+
Electrical devices		
Batteries	136	200+
Electromagnet and thermal current switch	335	141+
Lightning arresters	361	117+
Meters	324	105+
Multiple circuit switch	200	3
Pyromagneto electric	310	306+
Thermal current switch	337	14+
Thermal switch	337	298+
Expansive instruments	33	DIG. 19
Gas separation	55	209
Processes	55	81
Heat exchange devices	165	
I-oging composition	430	964*
Impedance in amplifier system path	330	143
Insulated rigid containers	493	903*
Liquid level or depth gages	73	295
Measurement	374	
Motor	60	516+
Neutrons	376	158
Neutrons	376	347
Reactive building component	52	232
Recording	346	76R
Surgical applications	128	362+
Inhalers	128	204.17
Instruments	606	27+
Kinesitherapy	128	24.1+
Medicators	604	20+
Orthopedics	128	68.1
Switches	337	298+
Electrically heated	337	14+
Tests	374	
Borehole formation logging	73	154
Calorimeters	374	31+
Gas analysis	73	25.1+
Volume or rate of fluid flow meters	73	204.11
Thermionic Devices	313	
Circuit element combined structurally	315	32+
Electric lamps	313	
Thermister	338	22R
Systems	323	369
Thermit T M		
Casting	164	53
Compositions	149	37
Explosive or thermic	149	37+
Composition containing	149	37+
Track joint welder	104	15
Type reduction	75	959
Thermocouple		
Body treating electric elements		
Body wear	128	391+
Electrical applicators	128	783+
Chemical analysis, apparatus	422	82.12
Electric motor	310	306+
Motive power system	318	117
Electric relay circuit	361	160+
Electricity to heat to electricity	322	2R
Generator systems	322	2R
Making (process)	437	
Refrigerator	62	3.2+
Peltier effect battery	136	203+
Structure	136	200+
Temperature control system	236	69+
Thermometer	374	179+
Combined	374	141
Thermoelectric		
Battery	136	200+
Controls burner	431	80
Motors	310	306+
Expansion and contraction type	60	516+
Systems	318	117
Thermoforming		
Directly applied fluid pressure differential	264	544
Thermolysis (See Cracking)		
Thermometers		
Bimetallic stock	428	616+
Case for	206	306
Design	D10	57+
Electrically heated	60	516+
Expanding fluid	374	201+
Expanding solid	374	187+
Bi-metallic	374	204+
Heated	60	516+
Hydrometer combined	73	442+
With float	73	449
Liquid gauge combined	73	292
Making by glass working	65	62
And calibrating	374	1+
Structure	374	100+
Testing of	374	1+
Thermostat	D10	50
Thermomigration	437	14
Thermonuclear Reaction Fusions	376	100
Thermophore		
Compresses	128	399+
Thermophoric Compositions	252	70
Thermopiles	136	224+
Thermoregulators	236	
Thermos T M Bottle	215	12.1+
Ceramic	215	12.1+
Design	D 7	608+
Metallic	220	420+
Vacuumizing	220	420+
Prefilled	220	411+
Thermostat (See Thermometers)		
Thermostatic		
Control and regulation		
Arc lamps	314	89+
Burner	431	18+
Refrigeration	62	132+
Temperature and humidity	236	
Valve cutoff	137	457
Materials		
Composition	252	70
Compound metal	428	616+
Switches	337	298+
Electrically heated	337	14+
Electromagnet	335	141+
Thetine	549	89
Thiadiazines	544	8+
Thiadiazoles, 1,2, 3-	548	127
Thiadiazoles, 1,2, 4-	548	128+
Thiadiazoles, 1,2, 5-	548	134+
Thiadiazoles, 1,3, 4-	548	136+
Thialdehydes	568	20
Thiamines	544	327
In drug	514	276
Thiazines	544	3+
Bio-affecting and body treating compositions	514	222.2+
Thiazoles	548	146+
Azo compounds	534	751+
Heavy metal ctg	534	701+
Synthetic rubber or natural rubber accelerator	525	349
Thiazoles, 1, 2-	548	206+
Thiazoles, 1, 3-	548	146+
Thiazolidine	548	146+
Thiazoline	548	146+
Thief Devices (See Sampler)		
Thienamycin	540	351
Thills		
Coupling jacks	254	28.5
Land vehicle animal draft	278	33+
Couplings	278	52+
Supports	278	81+
Tugs	54	50+
Thimbles	D 3	29
Bushing	16	2+
Claws	114	115
Combined with cutting devices	7	121+
Conduit end lining	174	83
Cutter tool combined with	7	121+

	Class	Subclass
Hardware	16	108*
Insulator pin type socket	174	200
Making	72	356
Packed shaft joint	277	112
Sewing apparatus	223	101
Design	D 3	29
Stovepipe	126	314*
Ventilation valved	98	118
Thinner		
Composition coating or plastic	106	311
Hair	30	195
Plant	172	534
Cross-art collection	172	900*
Thioacetic Acid	562	26
Esters	558	250
Thioacetol	568	63
Thioamides	564	74*
Thiobarbituric Acids	544	299*
Thiobiurets	564	22
Thioborate Esters	558	285
Thiocarbamate Esters	558	232*
Thiocarbamic	562	27
Thiocarbanilide	564	26*
Thiocarbazides or Semicarbazides	564	18*
Thiocarbazones or Semicarbazones	564	19*
Thiocarbonic Acid	423	415R
Esters	558	243*
Cellulose	536	60*
Thiocarboxamides	564	74
Thiocarboxylic Acid	562	26
Esters	558	230*
Cellulose	536	60*
Thiocarboxylic Acid Anhydrides	562	886
Thiocyanate	423	366
Esters	558	10*
Thioethers	568	38*
Thioglycollic Acid	562	512
Esters	560	147
Thiohydroxamate Esters	560	312*
Thioimidic Acid Esters	558	1*
Imidothiocarbonates	558	2
Pseudothioureas	558	4
Thiohydroximidic acid esters	558	3
Thioindigo	548	457*
Bicyclo ring system	549	52
Indole nucleus ctg	548	464
Thioketones	568	20
Thiokol T M (polyalkylenepolysulfide)	528	388
Thiolsulfinate Esters	560	310
Thiolsulfonate Esters	560	307
Thiolsulfonic Acids	568	21
Thiomorpholines	544	59*
Thionitrate Esters	558	480*
Thionitrite Esters	558	488
Thionyl Chloride	423	462
Thiooxamides	564	77
Thiophene	549	29*
Indole nucleus combined	548	464
Phosphorus attached	549	6
Thiophenols	568	67
Addition salts	564	280
Thiophosgene	562	839
Thiosulfate Esters	560	308*
Thiosulfates, Inorganic	423	514*
Thiosulfonamides	564	100
Thioureas	564	17
Stabilized or preserved	564	3
Synthetic rubber or natural rubber accelerator	525	352
Thioxanthenes		
Chalcogen or nitrogen attached	549	27
Third Rail		
Conductor	191	298*
Shoe	191	49
Snow excavator	37	204
Switch	246	419
Thiuram Disulphide	564	76
Thorium		
Alloys	420	1*
Composition radio active	252	625*
Compound recovery	423	
Electrolytic production	204	1.5
Metallurgy	75	394*
Nuclear fuel material	376	181
Nuclear fuel material	376	412
Nuclear fuel material	376	901
Organic compounds	534	11*
Thread		
Catchers		
Spinning and twisting frames	57	353
Counters of threads in fabrics	356	242
Cutters on sewing machines	112	285*
Dental floss holders	132	323*
Envelope affixing	493	376
Frames	28	149*
Generating helix or thread	409	65*
Guides		
Knitting machines	66	125R*
Spinning and twisting frames	57	352*
In bolt to nut lock		
Gripper	411	246*
Jam nut oppositely threaded nut	411	244
Intersecting thread, on bolt	411	245
Jam nut reversed threads on one	411	243
Thread lock by pitch difference	411	307
Thread lock differential thread	411	263
Thread lock dissimilar threads	411	308*
One deforms other	411	309
One deforms other near crest	411	311
Thread lock interrupted threads	411	304
Thread lock non-circular thread	411	282
Thread lock plural threads, oppositely biased	411	312
Thread lock rocking thread section, on bolt	411	264
Lock, bolt or nut to substructure	411	106
Lock, bolt to nut	411	259*
Including elastic gripping	411	301*
Packages	206	389*
Protectors for spinning and twisting frames	57	352*
Sensing elements on sewing machine	112	278
Sewing	57	903*
Sewing machine handling of	112	
Spooling machines	242	16*
Textile manufacture		
Coating or dyeing combined	28	217*
Finishing	28	217*
Spinning	57	
Winding and reeling	242	
Threaded Device (See Bolt, Nut, Screw)		
Bottle or jar cap	215	329*
Bottle or jar stopper	215	356
Fastening	215	283*
Interrupted thread fastening	215	281
Chuck or socket adjusting	279	
Fastenings	411	
Bolt or nut substructure lock	411	81
Bolt to nut lock	411	190*
Chuck grip	279	7
Element, deformed	411	333*
Making	10	2*
Nuts	411	427*
Wire nail	411	439*
Making		
Die cutting	408	215*
Drilling and tapping tool	408	215
Glass molding presses	65	309*
Grinding apparatus	51	95R
Grinding methods	51	288
Metal molding apparatus	164	216
Milling	409	65*
Platen rolling	72	88*
Rolling	72	104
Spirally corrugating tubes	72	103*
Static mold	249	59
Swaging	10	152R*
Tapping	408	215*
Turning	82	110*
Pipe joint	285	390*
Thimble	285	386*
Protectors		
Disassembly impact receiving	29	277
Pipe	138	96R
Safe closure	109	72
Tool adjusting	81	
Threader and Threading		
Buttons and staples	227	32
Setting combined	227	34
Curtain rod	223	105
Loom shuttle	139	221*
Implements	139	381*
Replenishing loom	139	259
Needle		
Hand	223	99
Sewing machine	112	224
Sewing machine needle setting combined	112	225
Stuffer box crimpers	28	268*
Textile twisting	57	279*
Three Dimensional Object		
Imitation or treated natural	428	15
Three Dimensional Photography (See Stereoscopy)		
Three Phase		
Current meters	324	107*
Motors	310	159*
Threonine	562	570
Threshers	460	
Combines	56	122*
Motorized	56	14.6
Design	D15	10*
Thresholds for Buildings	49	467*
Throstle Frames	57	
Throttle (See Valve)		
Engine speed responsive	60	906*
Governors for internal combustion engines	123	319*
Nozzle	239	546
Pneumatic piano	84	41
Pump regulator	417	1*
Train control	246	186*
Thrower (See Projector)		
Belt	474	101
Conveyor	198	638*
Fluid sprinkling, spraying and diffusing	239	
Or splasher	239	214*
Gaseous suspension classifier	209	153
Grenade		
Firearm attachment	42	105
Hand	102	486
Ordnance	89	1.1
Mechanical	124	
Pneumatic conveyor	406	71
Point switch railways	246	264*
Scattering non-fluid material	239	650*
Water guns	222	79
Throwoff		
Cradle rocker	5	106
Printing machine		
Bed and cylinder	101	283*
Multicolor bed and cylinder	101	191*
Thrum Mechanism	112	69
Thrust		
Antifriction bearing	384	590*
Radial thrust bearing combined	384	452*
Balanced pistons	92	126
Bar		
Typewriter	400	390*
Bearings plain	384	420*
Railway car journal	384	188
Compositions for developing	149	
Thumbtack	411	439*
Applier	81	44
Remover	254	18*
Thymol	568	781
Thyratron (See Space Discharge Device Space Discharge Device)		
Thyroid Extracts		
Medicine containing	424	568
Thyroxin	562	447
Ticket	283	
Booth	D25	16
Cases for pocket	206	39
For card	150	147*
With cutter	30	124
Dispensing package	206	39.4*
Fare boxes	232	7*
Holders	206	39*
Railway cars	40	642*
Letter box deposit or collection record	232	18
Machine	221	
Magazine	312	50
Making		
Pin ticket tag applying	493	375*
Printing	101	66*
Registering device	235	32
Theatre	283	53
Ticklers, Carburetor Primers	261	DIG. 73
Ticktack	446	417
Tiddlywink Game	273	353
Tide or Wave Motors	60	497*
Channel	405	76*
Combined with other	60	495*
Gravity	60	639*
Weight	185	30
Fluid current motors	416	
Gas pump actuator	417	330*
Liquid piston type	417	100
Generator drive	290	53
Electric control combined	290	42

	Class	Subclass
Liquid pump drive	417	330+
Marine propulsion	440	9+
Ties		
Air mattress parallel strip	5	457
Animal hitching	119	118+
Apparel clasp or tack	D11	202+
Apron	2	52
Bale and package	24	16R+
Making of wire	140	73
Between building component	52	582+
Building type	52	698+
Collar combined	2	130
Design	D 2	602
Dowels		
Fence		
Panel	256	28+
Rail	256	62+
Farm panels having	249	40+
Forms	223	82
Neck	2	144+
Design	D 2	605+
Design, ascot	D 2	605+
Fastener	24	49R+
Fastener design	D11	202+
Propped ladders	182	175+
Railway surface track	238	29+
Cast rail seats	238	270
Integral rail clamps	238	350
Tie plates	238	287+
Wrought rail seats	238	273
Rod	249	213+
Rod control of lights	362	57+
Ski	280	814+
Stretching	223	65
Vehicle body	296	40
Wire fabric	245	3
Tightoners	254	
Belt, band, chain, cord, hoop, slat, strap, (See pulls & pulling)		
Article carrier strap	294	150
Baling press bale band	100	29+
Barrel hoop	217	94+
Bed bottom elastic slat	5	211+
Belt	24	32
Clothesline	211	119+
Drive belt	192	11
Flexible material	254	199+
Gearing belt	474	101+
Locomotive drive belt	105	105+
Musical drum cord	84	413
Package strap	24	19
Resilient wheel antiskid	152	217+
Strap	24	68R+
Belt conveyor	198	813+
Pipe coupling	285	309+
Saw handle	30	517+
Wheel tire machine	157	8+
Wheel with compression spoke	301	75+
Tile		
Adhesively secured	52	390+
Asphalt	106	273.1+
Countertop	D23	308
Cutting	125	
Design	D25	138+
Digest	33	DIG. 2
Facing (See facer construction)	52	384
Filler block between sustainers	52	320+
Floor covering	D 5	
Game	273	292+
Hollow block	52	606+
Mah jong	273	292+
Molding machine	425	134+
Molding machine	425	218+
Mosaic design	428	44+
Roof	52	518+
Sheet attached	52	384+
Till Locks	70	85+
Burglar alarm	116	76
Tiller (See Steering)		
Design	D15	11+
For rudders	114	144R+
Tilting Devices		
Dispensers	222	164+
Dispensing stands	248	128+
Dumping receptacles	414	425
Receptacle supports	248	133+
Tables	108	1+
Vehicle body	414	381
Self loading	414	469+
Timbale Iron	99	431
Time (See Horology; Timers)		
Balls	116	200+
Compression or expansion		
Sound	381	34+
Time division multiplex	370	109
Constant circuit		
Controlling electronic tube	328	129.1+
In oscillator	331	
Measuring and indication	368	
Design	D10	40+
Electric phase indication	368	
Electrical systems	324	160+
Radiant energy reflected	342	176+
Railroad train passage	246	108+
Railroad train passing remote point	246	123
Reaction of persons, examiner controlled	273	1R
Rotation counter	235	104
Solar observation instrument	33	268
Teaching telling time	434	304
Operated and controlled		
Aerosol dispenser	222	649+
Aerosol sprayer	239	99
Battery charging or discharging	320	2+
Bedstead occupant awakener	5	131+
Beverage infusor	99	280+
Burner	431	86
Cable winding drum	254	266
Camera	354	238.1+
Cereal puffing apparatus	99	323.7
Chemical reaction apparatus	422	50+
Combustion starting	431	87
Contact printer	355	115
Dispensing articles	221	15+
Doors	49	29+
Drying	34	53
Electric circuit breaker	200	33R+
Electric demand meters	324	103R+
Electric lamp and electronic tube systems	315	360
Electric relays	361	160+
Electric space discharge system	315	360
Electricity motive power system	318	445+
Electronic tube systems	328	72+
Explosive devices	102	276+
Feeding devices for animals	119	51.11+
Feeding devices for fish	119	3
Fire kindler	431	86+
Fluid handling	137	624.11+
Fluid handling with indicator	137	552.7
Fluid sprinkling, spraying, or diffusing	239	70
Furnace damper	126	285.5
Furnace feeding	110	192
Gas contact with solids	34	53
Gas separator	55	271+
Heating and cooling device	165	12
Internal combustion engine	123	198R
Limit stop	192	138+
Liquid purifier or separator	210	138+
Locks	70	267+
Machine mechanisms trip	74	3.5+
Magnets or electromagnets	335	210+
Material treating apparatus	34	53
Memorandum holder	368	42
Mortar mixers	366	60+
Periodic electric relays	361	160+
Projection printer	355	67+
Railway switches and signals interlocked	246	161
Recording devices	346	
Refrigeration	62	231+
Refrigeration, automatic	62	157+
Signal electrical traffic control	340	907+
Signal or indicator	116	
Signal or indicator electrical	340	309.15+
Solar observation instruments	33	268
Spring motor	185	27+
Stove damper	126	285.5
Switch with electromagnetic operator	335	59+
Switch with thermal operator	337	301+
Switching systems	307	141+
Telephone coin collector	379	123
Telephone toll register	379	124+
Time stamps	346	80+
Typewriting machine lock	400	673+
Urinal flushing	4	302+
Valve	137	624.11+
Valve with fluid timer	251	48+
Valve with indicator	137	552.7
Weight motor	185	37+
Well apparatus	166	64
Work holder for manual tearing	225	8
X ray apparatus	378	96
Punch or time clock	D10	41
Switch	200	33R+
Periodic type	200	198+
Timepieces	368	
Assembly and manufacture	29	177+
Watchmakers tools	81	6+
Calibrating and testing	73	5+
Holder, not carried on wrist	224	903+
Timer (See Horlolgy; Time, Operated and Controlled)		
Camera shutter	354	226+
Delayed releaser	354	256+
Disparate device controlled	368	1+
Dispensing	222	638+
Expansible chamber motor	91	35
Food cookers	99	327+
Food cookers	99	332+
Food cookers	99	335+
Gas separator combined	55	271+
Desorbing solids	55	162
Metal founding apparatus control	164	157
Parachutes	244	150
Pneumatic dispatch systems	406	18
Rotation counters	235	104
Sandglass design	D10	44
Telephone coin collector	379	123
Telephone toll register	379	124+
Temperature or humidity control	236	46R
Time measuring instrument	D10	40+
Tin		
Alloys	420	557
Aluminum copper	420	530
Copper	420	470
Cans	220	
Compounds		
Inorganic	423	462+
Organic	556	81+
Oxides and hydroxides	423	618
Stannates	423	592+
Electrolysis		
Coating	204	54.1
Synthesis aqueous bath	204	120+
Synthesis fused bath	204	64R
Misc. chemical manufacture	156	DIG. 11
Plate	428	646+
Pyrometallurgy	75	690+
Combined with hydrometallurgy	75	432
Recovery from scrap		
Hydrometallurgy	75	716
Metallurgy	75	401
Tine		
Hand fork tine clearers	294	50+
Hand rakes	56	400.21
Harvester rake teeth	56	400
Harvesting sheaf carriers	56	478
Power driven conveyors		
Endless	198	692+
Reciprocating	198	772
Tinsel	428	7
Apparatus		
Chenille type	57	24
Covering or wrapping	57	5
Chenille type strands	57	203
Christmas type decoration	D11	121+
Making article of tinsel	493	955+
Tip		
Billiard cues	273	70+
Canes	135	70
Cigar	131	361+
Perforators or slitters	131	253+
Cigar cutters	30	109+
Ash receiver combined	131	233
Combined	131	248+
Pocket receptacle combined	206	238+
Cleaners for light burners	362	458
Crutches	135	70
Fishing rods	43	24
Hat attachments	2	190
Lacing	24	715.4+
Pile driving	405	253+
Shoe toe	36	77R
Tobacco pipe	131	227+
Tops	446	264
Umbrella	135	44
Rib	135	36R
Vehicle pole and thill	278	50+
Walking aids, general	135	77+
Tipcat Game	273	341

	Class	Subclass
Tipping		
Can cap soldering	228	
Cigar and cigarette making	131	29+
Wrapping	131	61.1+
Dispensing container	222	164+
Handled	222	466+
Lace	29	243.57
Vehicles	414	381+
Self loading	414	469+
Tipple Mine Car	414	381+
Tipup for Fishing	43	17
Tire		
Air impermeable liner	152	DIG. 16
Anti-skid design	D12	154
Bead spreader		
Holders for spread casings	81	15.3
Rubber tire setters	157	1.1+
Tire casing spreaders	254	50.1+
Bead to rim seal	152	DIG. 9
Building	156	110.1+
Drum	156	414+
Carcass materials	152	548+
Arrangement	152	558+
Carrier vehicle attached	224	42.12+
Tire tool combined	157	1.11
Chain	152	208+
Design	D12	154
Clamps	152	DIG. 8
Cord, reinforcing textile strand	57	902*
Cordless	152	452
Covers	206	304+
Crack resistant	152	DIG. 4
Design	D12	134+
Fabrics	152	DIG. 14
Gauge & balancer	D10	86
Grooved rim	152	DIG. 17
Hub tires	152	DIG. 18
Inflation		
Gas dispensing for	222	3+
Gauge	D10	86
Hose holder and fluid supply	137	355.17
Portable receptacle filling type	141	38
Valve stem closures and plugs	138	89.1+
Valved stem coupling	137	231
Valves stem type	137	223+
Vehicle combined devices	152	415+
Vehicle combined gas pumps	417	231+
Winding and reeling hose carriers	242	86+
With nongaseous materials	141	38
Land vehicle wheels	301	5R+
Antiskid devices	152	208+
Resilient wheels and tires	152	
Leak indicator	116	34R
Electric	340	442+
Locks for automobile	70	259+
Making and repairing		
Boring and turning	29	29
Forging	72	305
Laminated type	156	
Apparatus for	156	394.1+
Including adhesive bonding	156	110.1+
Metal processes	29	894.37
Metal rolling	72	67+
Metal working	29	22
Mold cores	425	26+
Mold cores	425	49+
Molding with heating and vulcanizing	425	28.1+
Molding with heating and vulcanization	425	340+
Molding with heating and vulcanization	425	363
Patches	152	367+
Presses for repairing tires	425	20+
Roughening by filing	29	76.1+
Tools for repairing	81	15.2+
Trimming cutter	82	
Vulcanizable gum apparatus	425	11
Vulcanizable gum apparatus	425	28.1+
Mold	409	902*
Mounting and demounting apparatus	157	1.1+
Mounting machinery	D15	199
Overlap	152	DIG. 15
Patching	152	367+
Processes	156	95+
Pebble ejectors	152	DIG. 1
Peg leg	152	DIG. 6
Pneumatic	152	450
Inner tube	152	511+
Process for laminating	156	110.1+
Puncture filling materials for	106	33
Repairing press	425	11+
Processes of making metal	29	894.37
Processes of repairing	264	DIG. 74
Racks	211	23+
Velocipede type	211	20+
Velocipede type wall mounted	211	19
Railway wheels		
Loose tires	295	10
Sheet metal integral web and	295	24
Tire cushions	295	11+
Tire fasteners	295	15+
Removers	157	
Repair tool	D 8	31
Resilient tires	152	151+
Anti-skid armored	152	167+
Anti-skid devices	152	208+
Cushion	152	246+
Cushion and pneumatic combined	152	155+
Grooving	157	13
Inflating devices	152	415+
Patches	152	367+
Pneumatic	152	450+
Repair tools for	81	15.2+
Wheel securing means	152	375
Retreading	425	17+
Rims	301	95+
Rubber valves	152	DIG. 7
Sandwich breakers	152	DIG. 19
Slits in treads	152	DIG. 3
Spare tire compartment	296	37.3
Fender wells for	280	152.5
Split rim seal	152	DIG. 1
Static discharge	152	DIG. 2
Testing	73	146
Abrasion	73	8
Pressure gauges	73	700+
Valve leak	73	48
Tire bead grommets	245	1.5
Tread pattern design	D12	136+
Tubeless valves	152	DIG. 11
Valves stem guards	152	DIG. 13
Vulcanizing machinery	D15	199
Water pilled	152	DIG. 5
Wheelwright machines	157	
White sidewalls	152	DIG. 12
Tissue Equivalent Ionization Chamber	250	472.1
With tissue equivalent gas	250	336.1
Tissue or Sheet Dispenser	206	233
Dispenser, interfolded sheets	D 6	518+
Holder	248	905*
Titanate Ceramic Compositions	501	134+
Titanium		
Alloys	420	417
Composite metal stock	428	660
Metal working digest	29	DIG. 45
Compounds inorganic	23	
Compounds organic	556	51+
Copper alloys	420	492
Light sensitive titanium compound	430	947*
Misc. chemical manufacture	156	DIG. 75
Organic titanium compounds on textiles	8	DIG. 5
Oxide and hydroxide	423	608
Pigments fillers and aggregates	106	436+
Electrolytic	204	64T
Pyrometallurgy	75	612+
Titlers		
Movie	352	90
Still copy device	355	39
Titrating Devices	422	92+
Toaster		
Bread	99	385+
Automatic	99	325+
Household unit	D 7	328+
Tobacco	131	
Alkaloids	546	282
Barns	432	500
Cigarette making	131	280+
Tobacco feeding	131	108+
Commercial processing machinery	D15	10+
Condition sensing		
Continuous tobacco rod	131	906*
Detecting machine malfunction	131	910*
In feed hopper	131	909*
Pneumatic means	131	904*
Radiation source	131	905*
Rejection by	131	907*
Unique characteristic	131	908*
Curer	D23	334
Derrick hoist for hangers	254	266
Design, tobacco & smoker supplies	D27	
Die cutting	83	510
Drying		
Apparatus	34	
Fluid treatment combined	131	300+
Processes	131	300+
Extract for use in drugs	424	197.1
Hangers	294	5.5
Harvesters	56	27.5
Insecticide from	424	197.1
Jar or pouch design	D27	185+
Packages	206	242+
Paper wrappers for cigars, cigarett	229	87.1
Pipe literature digest	131	DIG. 1
Pipe making apparatus	425	
Plants	PLT	89
Plug or compressed shape making	131	111+
Plug tobacco label for fastener	40	670
Pocket receptacle for, convertible or combined	206	236
Puffing process	131	291
Fixing after puffing	131	903*
Inorganic chemical agents used	131	902*
Liquified gas used	131	900*
Organic liquid used	131	901*
Smokers appliances	131	329+
Spinning	57	28+
Stalk stripping	460	134
Storage or curing building	D25	1+
Stringers or unstringers	414	26
Supplies	D27	
Treatment	131	290+
Vehicle rack	296	5
Tobias Acid	562	68
Toboggan (See Ski; Sled)	280	18
Design	D12	11
Saucer type	280	18.1
Water	441	65+
Tocopherol	549	408+
In drug	514	458
Tod, Total Oxygen Demand Testing	436	62*
Toe		
Cap protectors	36	72R
Caps	36	77R
Toggle (See Particular Device)		
Bolt	411	340+
Forging press	72	451
Machine element	74	520+
Switch mechanism	200	401
Toilet	132	
Aerobic decomposing	4	DIG. 12
Animal grooming	119	83+
Design	D30	158+
Article	D28	9+
Container or wrapper	493	960*
Holder	D28	73
Mirror	D28	64.1
Special package	206	823*
Tooth brush	D 4	104+
Vanity case for	206	235
Bath, closet, sink, spattoon	4	
Beauty aid demonstration	434	377
Teaching hair or wig styling	434	94
Bed	5	90
Receptacle in mattress	5	463
Bowl	4	420+
Brushes	15	164+
Disinfecting chemical holders	4	228+
Brush holder	D 6	551
Brushes, bristled	D 4	130+
Brushes, non-bristled	D28	9+
Case design	D 3	39
Case illuminator	362	135
Childs training seat	D23	296
Deformable traps	4	DIG. 16
Disinfection	4	222+
Electric flushing	4	DIG. 3
Electrolytic	4	DIG. 17
Grooming articles	132	
Having deformable trap	4	DIG. 13
Head covering	2	174
Heated seats	4	DIG. 6
Kit absent special toilet article, eg mirror	401	118+
Kits	132	286+
Manicure tool	132	73+
Oil toilet	4	DIG. 11
Paper		
Dispensing holder	206	389+
Interleaved folds	221	48+
Roll holders	242	55.2+
Design	D 6	523

	Class	Subclass
Prison bathrooms	4	DIG. 15
Seat	4	234+
Pads and covers	4	242+
Seat or cover	D23	311+
Water additive or substitute	4	DIG. 1
Toilet Water, Perfume	D28	5
Tokens		
Checks labels and tags	283	74+
Coin type	40	27.5
Coin	D11	95+
Toluidine (See Benzidine)		
Toilers	73	863+
Toluene (See Aromatic Hydrocarbon)	585	400+
Oxidation of	562	409+
Toluidin	564	305
Tombstones (See Monument)	52	103+
Design	D99	17+
Name plate for	40	124.5
Picture attachment for	40	124.5
Tompions	89	31
Tone		
Arms of phonographs		
Electrical	369	135+
Mechanical	369	158
Control means	333	24R+
Equalizer network	333	28R
With amplifier	330	
Automatic impedance control	330	144+
Automatic thermal impedance control	330	143+
Cathode feedback	330	94+
Feedback	330	109+
Input coupling impedance	330	157+
Interstage coupling impedance	330	185+
Output coupling impedance	330	195+
Musical pitch (See music)		
Toner	430	105+
Concentration control	118	689+
Radiation imaging	430	965*
Tong (See Lazy Tongs)		
Agriculture or forestry	D 8	4
Animal catching	119	154
Extension ladder	182	157+
Fire escapes	182	69
Fireplace equipment	D 8	52+
Fireplace tong stand	D 6	416
Food preparation & serving	D 7	686
Handling implement	294	3
Clothes	294	8.5
Design	D 7	686
Fire	294	11
Grapple	294	119
Harvester self raking	56	165
Making	76	
Metal drawing appliance	72	290
Roofers sheet metal seaming	29	243.5+
Tools	81	300+
Tongue		
Depressors	128	15+
Atomizers with	128	200.15
Design	D24	19
Envelope closure	229	84
Sealing	229	82
Harvester type	56	218
Tilting platform central cutter	56	188
Knitting needle making	163	3
Land vehicle		
Animal draft	278	33+
Antivibrators	280	108
Attachments	280	155
Extension actuators	280	46
Trailer, adjustable	280	462
Truck	280	82+
Lock type shoe sole sewing machine	112	33
Punching tie band	29	21.1
Railway switch point	246	442+
Rigid vibrator music instruments	84	408
Shoe	36	54
Single throw lever actuated by	414	436
Straddle row cultivator without	172	338+
Vehicle brake operator		
Auxiliary	188	115+
Movable	188	119+
Tonometers		
Hardness testing	128	645+
Medical diagnostics	128	645+
Musical pitch	84	454
Sphygmomanometer	128	677+
Tonsillotome	606	110+
Hemostasis	606	111+
Other treatment combined	606	34+
Tools (See Implements; Instruments)	81	
Abrading and polishing	51	
Advancing means	173	141+
Assembling	29	700+
Belt lifters	474	130
Boxes	206	349+
Chest	312	DIG. 33
Cleaning	15	104R+
Cleansing means	173	57+
Fish	17	66+
Hog carcass scrapers	17	19
Ship hull	114	222
Closure applying and removing		
Ammunition capping	86	37+
Ammunition shell closing	86	28
Bag with opening device	206	610
Bottle and jar closing	53	287+
Bottle cap with opener	215	228+
Box openers	254	18+
Can head with opener	220	260+
Can openers	30	400+
Cap removal facilitated	215	295+
Closure removing	81	3.7+
Complex for deforming metal	72	394+
Compound	7	
Magnetic feature, collection	7	900*
Resilient pivot, collection	7	901*
Cooler	62	293
Cutlery	30	
Dental	433	25+
Orthodontic	433	3+
Design of	D 8	
Detachable, portable, power-driven	30	500*
Diamond	125	39
Drill having diamond edge	408	145
Holders for abrading and polishing	51	229
Making blank or process	76	101.1+
Making dies	76	107.1+
Making drills	76	108.1+
Precious stone working	125	30.1
Driving means	173	
Metal deforming machine	72	429+
Vibration isolation	173	162.1+
Earthworking	172	
Boring or drilling	175	
Hand forks and shovels	294	49+
Hand manipulated cultivating	172	371+
Hand rakes	56	400.1+
Handling hand and hoist line	294	2
Mining and disintegrating in situ	299	79+
Spade or shovel with cutter	7	116+
Subsoil irrigators and weed killers	405	35+
Electrically heated	219	221+
Elongated handles	D 8	DIG. 7+
Farriery	168	45
Feed	173	141+
Earth boring type	175	162
Food handling	D 7	669
Cherry seeding	30	113.1+
Corn husking	460	26
Corn shellers	460	45
Cutlery	30	
Meat and vegetable preparing	30	
Oyster openers	17	74+
Peach stoner	30	113.1+
Raisin seeding	30	113.1+
Scoring	30	164.9
Hair dressing or manicuring	D28	9
Hand	81	
Assembly or disassembly	29	270+
Cooler	62	293
Handle	81	489+
Handles	7	167+
Handling	294	
Holders		
Carried by belt	224	904*
For dental machines	433	77+
For metal lathes	82	159+
Impacting device	173	90+
Leather	69	20
Boot and shoe making	12	103
Making	76	
By die rolling	72	184+
Cutting spirally grooved	409	65+
Grinding to shape or sharpen	51	
Sharpening electrolytically	204	129.1+
Manicuring	132	73+
Medical or surgical	D24	
Metal working		
Assembly, magnetic, or indicia tools	29	DIG. 105
Bolt nail nut rivet and screw making	10	
Cutting & punching sheets & bars	83	
Deforming	72	462+
Design	D15	122+
Horseshoe making	59	60
Metal tool and implement making	76	
Soldering	228	51+
Tool or work attached	29	DIG. 104
Wire working	140	
Motors		
Multipurpose	7	
Nut lock tool	81	10
Pliers and tongs	81	300+
Pushing and pulling	254	
Rack-type holder	D 8	71
Rack-type holder	D 8	349+
Self heating with burner	126	401+
Sharpener	83	174
Shaving or hair clipping	D28	44+
Shoe making	12	103
Stone working	125	36+
Telephone dialing	379	456
Tire		
Bead spreading	254	50.1+
Breakers for split rims	157	1.35+
Repairing	81	15.2+
Repairing with vulcanizing	425	12
Setting and removing	157	1.1+
Valve stem cap with tool	152	431
Top and dies	408	215+
Valve removal tools	29	221.6
Vehicle-mounted	83	928*
Vises	269	
Barrel chamfering	147	42
Design, hardware	D 8	
Design, machinery	D15	122+
Turning	142	56
Wrenches	81	52+
Impact	81	463+
Tooth (See Teeth)		
Agricultural and earthworking implements		
Cultivator tooth structure	172	713
Diggers	171	
Excavating tooth	37	142R
Hand cultivating tool	172	378+
Hand rakes	56	400.21
Harrows	172	
Horse drawn rakes	56	400
Planting drill	111	154+
Raking machine	56	344+
Brushes	15	167.1
Design	D 4	104+
Dispensing	132	311
Holder	D 6	524+
Kit	132	308
Material supply combined	401	268+
Receptacle for	206	361+
With massage tool	15	110
Comb teeth cutting	144	26
Combs	132	152+
Dentifrices	424	49+
Dentistry	433	167+
Design	D24	10+
Pulp tester	433	32
Gear	74	457+
Lubrication	74	468
Testing	73	162
Inserted tooth metalworking cutter	407	33+
Kit		
Brush or paste retained	401	118+
Making		
Apparatus	29	23.1
Forging	72	376
Gear cutting	409	1+
Method	29	895.31
Saw tooth	76	25.1+
Toothed article	83	908*
Toothed cylinder		
Paste	424	49+
Holder-squeezer	D 6	541
Tube	222	92+
Picks	132	321+
Design	D28	64
Making	144	185+
Packaging	53	236
Receptacle	206	380+
Stone sawing	125	22
Tooth article making	83	908*
Vehicle fender	293	53

	Class	Subclass
Wood sawing	83	835+
Fastenings	83	840+
Toothbrush (See also Tooth)	D 4	104+
Toothpick		
Cocktail-type pick	D 7	683+
Holder, household	D 7	635
Holder, personal	D28	64
Top Boards		
Vehicle body	296	32+
Convertible box	296	13
Securing devices	296	36
Topical Remedies	424	
Veterinary	424	
Toppers		
Beet	99	635+
Digging followed by topping	171	26+
Harvesting grain or corn crops		
Cutter and catcher combined	56	56+
Cutter combined	56	63
Tops		
Bed		
Bedstead post top knob	5	281
Slat frame top	5	244
Chance device	273	147
Counter	312	140.3
Land vehicle	296	98+
Design	D12	156
Metallurgical furnace top	266	199
Still top closure	202	250+
Stove	126	211+
Table panel	52	783+
Toy	446	256+
Design	D21	95+
Motorized	446	259
Torch		
Solid fuel	44	540
Torches (See Flare; Illuminating)		
Design	D26	8
Liquid fuel burner	431	327
With common support for igniter	431	127+
Pyrotechnic	102	336+
Torpedo		
Aerial	244	14
Automatic controlled steering	114	23+
Guards	114	240R+
Net type	114	241
Marine	114	20.1+
Boats	114	18+
Guards	114	240A+
Launching	114	238+
Submarine boats	114	316+
Railway signal	246	487
Placing mechanism	246	210+
Remote control	114	21.3
Toy	102	353
Well	102	301+
Torpedo Boats	114	18
Submarine	114	316+
Torque		
Brake testing lever measuring	73	131
Clutch control by	192	54+
Controls hoist	254	275
Dynamometers		
Absorption	73	862.8+
Transmission	73	862.19+
Wrench	73	862.21
Gearing control by	74	337
Planetary (See notes thereunder)	475	254+
Railway rolling stock		
Axle arm	105	132.1
Opposing equalizer	105	135
Tubes	74	607
Wrench overload yielding	81	467+
Torsiometers	73	847+
Torsion		
Balances	73	383
Clock pendulums	368	180
Rod for dumping horse rake	56	392
Spring closers	16	75+
Spring locomotive	105	70
Spring trolley erector	191	69
Testing		
Stress strain	73	847+
Vibration	73	650
Vehicle spring	267	273+
Leaf and	267	25+
Total Oxygen Demand, Tod	436	62+
Totalizers	235	
Weigher combined	177	15+
Touch Systems, Electric Power	323	904+
Toupees	132	53+
Tourniquets	606	203
Tow Spreading	28	282
Tow Truck		
Design	D12	14
Tow-to-Top Stapilizing	19	.3+
Towels	D 6	608
Dispensing	312	37+
Reels	242	55.2+
Sheets	D 6	522
Packaged towel	206	812+
Racks	211	16
Design	D 6	512+
Lock combined	211	6
Stacked article type	211	50+
Towar (See Mast)		
Bisulphite process	423	520
Chemical apparatus	422	
Distillation	202	
Oil fractionating	196	139
Fire escape	182	48+
Gas and liquid contact	261	
Overhead electrical conductor	174	45R
Fire extinguishing	169	25
Railway	104	125
Suspension bridge	14	21
Type antenna	343	874+
Wheeled water	169	25
Towing (See Traction)		
Aerial signs	40	215
Aerial targets	273	360+
Attachments for wheeled vehicles	280	292
Crane, self propelled	212	141
Marine propulsion	440	33+
Ships	114	242+
Vehicle tow chains and ropes	280	480
Toxilarine	540	472
Toys	446	
Aircraft	446	34
Aquatic	446	153+
Buildings	446	476+
Construction toys	446	85+
Container or wrapper	493	959+
Design	D21	59+
Drums	84	420
Figure toys	446	268+
Figure wheeled toys	446	269+
Firearms	42	54+
Flying	446	34+
Handler-type toys	414	915+
Inflatable	446	220+
Design	D21	59+
Magnetic	446	129+
Model airplane controls	244	190
Money boxes	446	8+
Music boxes	84	94.2+
Railway track	238	10E
Remote control of	446	454+
Electric toy trains	104	295+
Scale model vehicle design	D21	128+
Soap bubble devices	446	15+
Sounding toys	446	397+
Sounding wheeled toys	446	409+
Spinning and whirling	446	236+
Torpedoes	102	353
Watches	368	45
Wheeled toys	446	431+
Tr, i.e. Transmit Receive or Transmit	333	13
Tr box in radio set	455	76+
Transmit-receive circuitry	367	903+
Trace		
Harness	102	353+
Carriers	54	54+
Design	D30	134+
Detachers from singletrees	278	24+
Hame and trace connectors	54	30+
Thill or pole connections	278	118
Whiffletree connections	278	102+
Tracer	409	126
Ammunition	102	513
Explosive shell	102	513
Radio active composition as	252	625+
Tracheotomy	606	185
Tracing Board	D19	52
Track (See Rail)		
Clearers		
Harvester	56	314+
Railway	104	279+
Snow excavating	37	198+
Wheel path of earthworking tractor	172	833
Endless flexible	305	
Land vehicle combined	280	28.5
Motor vehicle combined	180	9.1+
Shoe making	29	891.1
Step ascending vehicle combined	280	5.22
Endless track	305	
Layers railway	104	2+
Leveling gauge	33	287
Light, track-type	D26	61+
Marine towing	440	35
Material and article handling		
Pivoted track elevator or hoist	414	597
Tilting	414	357
Tilting track elevator or hoist	414	599
Vertically movable	414	354+
Motor vehicle	180	9+
Operated sawmill carriage	83	716
Panel	16	96R+
Railway	104	
Grade crossing protection	246	111+
Guard fence	256	14+
Guard gate	49	133+
Iron forging dies	72	343+
Mechanism automatic signals and gates	246	297+
Mechanism automatic switches	246	322+
Pushers on locomotives	105	31
Surface	238	
Testing	73	8
Trips cab signal or train control	246	201+
Trips electric	246	76
Sanders	291	
Store service	186	34
Wheel substitute	305	
Tracker	84	151+
Box location	84	116
Double tracker for pneumatic player pianos	84	31+
Plural sheets for single tracker	84	120
Tracker combined with sheet	84	146+
Trackway		
Cabinet combined	312	
Disappearing instrument type cabinet	312	21+
External	312	349
Internal	312	350
Showcase type cabinet	312	114+
Rack combined	211	162
Paper or textile sheet type rack	211	46
Shelf type rack	108	143
Wall or window type rack	211	94
Railway	104	
Surface track	238	
Trunk tray	190	29+
Traction		
Engines		
Railway	105	26.5+
Steam, motor vehicle	180	36+
Floor and wall cleaners		
Pump	15	341+
Motor vehicle		
By other than wheel	180	7.1+
Endless flexible track	180	90
Stepper	180	8.1+
Runner supported	180	182+
Endless track	180	190
Endless track substitutable for wheel	180	184
Traction wheel	180	184
Suction effect	180	164
Vertical surface traversing device	180	901+
Wheel, additional traction	180	15
Wheel, traction, attachments	180	16
Operated		
Harvesters	56	211
Railways	104	165+
Stoneworking tools	125	37
Vacuum cleaner	15	341+
Prime mover dynamo plant	290	45
Electric control	290	9+
Railway		
Mats	238	14
Maximum traction type brakes	188	48
Razors		
Blade moving means	30	46
Regulators for locomotives	105	73+
Runner vehicles (See motor vehicle above)		
Traction wheel, occupant propelled vehicle	280	12.13+
Wheel drive	280	12.13+
Surface coating or plastic	106	36

	Class	Subclass
Wheel		
Land vehicle	301	41R+
Railway turntable actuators	104	43
Tractors (See Motor Vehicles)		
Cab	180	89.12
Design	D15	23+
Handling device on tractor device	414	920*
Obstetric	606	119+
Pusher attachment for	293	DIG. 1
Toy simulation	446	434
Tractor mounted mortar mixing chamber	366	606*
Traffic Control		
Accident display	434	305
Air	342	36
Airway	340	945+
Computer controlled, monitored	364	439+
Barrier	404	6+
Building structure	52	174+
Computer controlled, monitored	364	436+
Director	404	9+
Lights	340	907+
Design	D10	115
Railway	246	
Signals and guides	116	63R
Design	D10	109+
In pavement	404	9+
Electric	362	153.1
Reflective triangle for highway use	40	903*
Stationary signs	40	612+
Tragacanth	536	114
Trailer		
Boat carrying	280	414.1
Coupling	280	504+
Design	D12	101+
Hitch	D12	162
Land vehicle	280	400+
Mobile home design	D12	101+
Semitrailer	280	423.1+
Two wheeled	280	400+
Dumping	298	5+
Train		
Aircraft	244	3
Automatic stop	246	167R+
Brake		
Fluid automatic	303	47
Fluid multiple motors	303	7+
Fluid multiple motors valves	303	53
Railway	188	34
Railway automatic	188	124+
Railway automatic momentum	188	147+
Vehicle	188	3R
Vehicle automatic	188	112R
Chemical apparatus	422	189+
Clock electric switch	200	35R+
Control automatic	246	167R+
Coupling type pipe or cable support	248	53
Dispatching	246	2R+
Gear		
Yieldable element	74	411
Heating		
Steam car boiler plus train steam	237	42
Water heated by train steam	237	34+
Horology		
Clock	368	62+
Dial	368	220
Watch	368	268
Land vehicle	280	400+
Occupant propelled tractor	280	204
Lighting	362	61+
Motor vehicle	180	14.1+
Railway	105	1.4+
Audible indicators	246	217
Block signal systems	246	20+
Cab signal or train control	246	167R+
Dispatching	246	2R+
Drawbridge protection	246	118+
Electric switch	246	220
Endless	104	25
Fluid motor actuated	246	260
Grade crossing protection	246	111+
Moving	104	18+
Passengers station signals	246	209
Position indication	246	122R
Railway signal structure	246	473R+
Roadway defect protection	246	120+
Switch stands	246	394
Torpedo mechanism	246	210+
Train carried station indicator	246	174+
Vehicle prime mover dynamo plants	290	3

	Class	Subclass
Training	434	
Aircraft	434	30+
Animal	119	29
Harness	54	71+
Hedge	47	4
Ordnance	89	41.1+
Physical on rails	104	62
Vehicle	434	29+
War	434	11
Trampoline	272	65
Design	D21	235
Life saving nets	182	138+
Transactinide Chemistry	423	249+
Transactinide Chemistry	534	11+
Transalkylation (See Disproportionation)		
Transceiver	455	73+
Transducers		
Angular position measurement	33	1PT
Piezoelectrical	84	DIG. 24
Underwater vibration	367	141+
Transductor (See Amplifier Saturable Core Reactor Systems)		
Transfer		
Applying processes	156	230+
Bed, invalid lifter	5	81R+
Coated article	427	146+
Decalcomania (See decalcomania)	428	914*
Designs for hot iron	8	467+
Devices for knitting machines	66	148
Direct contact transfer	156	
Apparatus	156	539+
Methods	156	230+
Dyeing	8	467+
Egg candling	356	55+
Electrical transmission Table	191	9
Electrophotographic latent image	355	217
Electrophotographic visible image	355	271+
Heat	165	
Identifying or fraud preventing	428	915*
Lamina processes	156	230+
Laminate	428	
Liquid		
Reciprocating valves	137	251.1+
Regulators	137	505.16
Making by coating	427	146+
Paper, carbonless	503	200+
Paper files and binders Picture (See decalcomania)		
Pipes with heat transfer	138	38
Printing		
Bed and cylinder	101	251+
Intaglio	101	154
Multicolor	101	177
Planographic	101	142+
Preparatory designs	101	33+
Rotary	101	217+
Railway		
Passenger	104	20+
Tables	104	48+
Trolley	104	96+
Register	235	133R+
Sheet		
Inserter, remover, fork	402	80R
Transfer post	402	47
Stripping of backing	156	247+
Textile smoothing machine Article	38	7+
Textiles weaving		
Bobbin changing	139	242+
Bobbin changing tips	139	244
Thread control cutter	139	267
Tobacco	131	82
Molding or forming with bunch transfer	131	82
Wrapper	131	105
Transportation	283	27+
With fraud prevention or detection	283	72+
Type casting		
Assembling	199	32
Assembling collector & transfer	199	26
Distributing	199	36
Wood sawing		
Log	83	708+
Transfer or Decal	D 5	63+
Transformation, Nuclear	376	100
Transformation, Nuclear	376	156
Transformers	336	
Arc lamp supplied by	314	32

	Class	Subclass
Differential transformer	33	DIG. 5
Electric	336	
For arc lamp systems	314	32
For incandescent lamps systems	315	276+
In amplifier		
Induction heating system	219	6.5+
Induction heating type	219	10.75
Input coupling	330	188+
Interstage coupling	330	165+
Lamp or electronic tube supplied by	315	276+
Metal heating system	219	50+
Movable core type	336	130+
Output coupling	330	195+
Plate	336	
Power	D13	110+
Regulating	336	
Interconnection systems	307	
Systems	323	
Saturating transformer	336	155
External or operator controlled	323	329
Input responsive	323	302
Output responsive	323	249
Regulating system	323	
Structure	336	
Self regulating	323	310
Telegraph system	178	64
Tuned high frequency	333	177+
Transgenic Animal	800	2
Transistor (See Amplifier, Electric)	357	
Amplifiers	330	250+
Composition	252	62.3 R
Concentration gradient	357	90*
Field effect, making (process)	437	
Integrated injection logic	357	92*
Ion implant	357	91*
Making	29	25.1+
Process	437	
Particular internal structure of region	357	88*
Peltier effect	357	87*
Photo-responsive, making	437	
Shorted junctions	357	86*
Step junction	357	89*
Structure	357	
Systems (See system)		
Miscellaneous	307	200.1+
Tester	D10	77
Transits	33	290
Optical	356	138+
Translating		
Agitator mixing chamber stationary	366	332+
Agitator stirrer	366	343+
Cover combined	366	255+
Gate	49	404+
Operator	49	324+
Music		
Electric	84	600+
Transposing	84	470R+
Plow	172	483+
Steering post	74	496+
Telegraphic printer	178	26.1
Transmission (See Gearing)		
Aircraft power plant	244	60
Automotive lock	70	245+
Centrifugal bowl separator with	223	23+
Clutch control with	192	3.51+
Control and brake	192	48+
Design	D15	149
Electric		
Cranes transmission to	191	
Distribution	307	
Facsimile	358	400+
Filter network	333	167+
Light wave	455	600+
Multiplexing	370	
Power transmission	307	
Pulse or digital communications	375	
Quarter wave transmision line	333	27
Radio	455	91+
Safety system for transmission lines	361	1
Signal box	340	287+
Signal transmitters	341	173+
Hand held	341	20+
Telecommunications	455	
Telegraph	178	
Television	358	83+
Transmission to vehicles	191	
Transmit-receive circuitry	367	903*
Fluid		
Lamp electrode	314	61

	Class	Subclass
Power plant	60	
Pump with motor	417	379+
Railway car axle drive	105	96.2
Scales	177	208+
Guide for a shiftable handler	414	918*
Heat		
Heat exchangers	165	185
Liquid heaters and vaporizers	122	367.1
Internal combustion engine	123	197R
Lamp electrode power control	314	79+
Latch operated clutch	192	24+
Line	174	103+
Concentric	174	103+
Involving line parameters	333	236+
Resonant	333	236+
With nonsolid insulation	174	28+
Machine element	74	
Belt & pulley drive system	474	
Planetary gearing	475	
Motor vehicle	180	337+
Having two wheels in tandem	180	230
Safety belt responsive to transmission thereof	180	269
Railway car axle box mounted	105	96.1
Rotary crane	212	247+
Tower or post	D25	126+
Transmutation of Elements Fission	376	156
By fusion	376	100
Transom (See Window)		
Operators	49	356
Railway truck	105	208+
Bolster combined	105	202+
Transparency		
Product with abnormal	428	918*
Testing and inspecting sheets	356	432+
Viewer	40	361+
Walled receptacle	220	662+
Transplanters	111	100+
Biodegradable receptacle	47	74+
Dibbling implements	111	92+
Receptacles	47	73+
Big ball tree	47	76
Seedling	47	77+
Tree	111	101
Transponders		
Radar	342	42
Transportation (See Vehicle Handling)		
Advancing material of indeterminate length	226	
Printed matter	283	23+
Vehicle design	D12	
Transporting Attachments Harvesters	56	228
Transposers		
Electric conductors	174	33+
Music		
Indicators with transposing dial	84	480
Keyboard transposers	84	445+
Teaching device with transposing dial	84	474
Teaching device with transposing slide	84	473
Tracker and music sheet shifted to change key	84	145
Transuranium Compounds		
Inorganic	423	250+
Organic	534	11+
Trap & Trapping		
Animal etc	43	58+
Bank protection devices	109	3+
Burglar	43	59
Chamber dispensing	222	
Agitator combined with movable	222	226+
Agitator or ejector for movable	222	216+
Barometric type stationary	222	457
Fluid flow discharge from movable	222	636
Into conduit	406	63+
Inkwell dip well	222	576+
Jarring movable	222	197
Movable or conveyor type	222	251+
Removable from container for discharge	141	110+
Rotatable container with	222	170
Stationary	222	424.5+
Stationary with cutoffs	222	425+
Supply movable relatively to	222	162
Tiltable assembly	222	454+
Comminutor projected material	241	82
Currycomb combined	119	87
Deposit receptacle coin	232	55+
Design	D22	119+
Doors		
Ladder combined	182	77+
Manhole cover	404	25+
Railway car platforms	105	426+
Vertically swinging outside		
False or picking key	70	390
Fish traps	43	100+
Fish, game, vermin traps	D22	119+
Design	D22	119+
Fish locating instrument	D10	46+
Hooks	43	34+
Design	D22	144
Lures	D22	125+
Nets, landing spears, etc	D22	135+
Gas & liquid (See seal, liquid)		
Automatic heating radiator with	236	41
Automatic temperature etc regulation	236	53+
Bath etc	4	191+
Beverage infusers	99	301
Boiler	122	
Cigars etc	131	331
Concentrating evaporators	159	31
Decanters with	210	513+
Dispenser inlet or outlet	222	188
Filters with sediment	210	299+
Fluid current conveyor	406	62+
Fluid delivery track sanders	291	11.1+
Fluid distribution	137	171+
Gas and liquid contact apparatus	261	86
Gas separator combined	55	355
Manufacturing processes	29	890.146
Nonrefillable bottle	215	15
Sewerage	137	247.11+
Smoking pipes etc	131	201+
Spittoon	4	283
Steam	137	171+
Water closet	4	300+
Ion	335	210+
With cathode ray tube	313	424+
With TV picture tube	313	424+
Nests	119	47+
Railway plow	104	145
Safety pockets for garments	2	254
Steam	137	171+
Thermostatic	236	53+
Target		
Centrifugal projectors	124	4+
Disk holders and carriers	124	42+
Disk magazines	124	46+
Projectors	124	
Trap shooting target handling	273	406
Vehicle fender	293	15+
Trapezes	272	61
Trapping	43	
Trash (See Refuse; Waste)		
Bundle	428	2
Metal	428	576
Burners	126	222+
Furnace structure for garbage and sewage	110	235+
Furnace structure for refuse	110	235+
Can liners	220	404+
Can support	248	907*
Clearers for plows	172	606+
Travelers		
Animal hitching	119	120
Ship	114	204+
Ship mast	114	112
Textile spinning rings and	57	119+
Track hardware	16	87R+
Traveling		
Bags	206	278
Design	D 3	30.1+
Grates	110	267+
Special sewing machine	112	121.14
Wave loom	139	436
Wave tube		
Demodulator	329	
Modulator	332	
With delay line	315	3.5+
Traverse Rod	D 8	377
Trawl	43	9.1+
Lines	43	27.4
Tray (See Dish; Receptacle)		
Animal stock	119	103
Automobile supported table	108	44+
Bank protection deal	109	19
Cabinet showcase type	312	126+
Cafeteria dispenser unit	D34	14
Circular household article	D 7	552+
Coin pickup or delivering		
Coin deliverers	232	64+
Special receptacles for coins	206	.8+
Compartmented	D 7	553
Dental equipment	433	77+
Designed for glasses	D 7	553
Drying etc	34	237+
Removable tray type	34	192+
Egg candling	356	61
Gas filter tray	55	494
Handle supported	294	172
Special article	206	557+
Heaters	261	DIG. 3
Ice cube	249	117+
Incubator	119	43+
Making wood	144	33
Paper receptacle	229	190+
Photographic fluid treating	354	331+
Rack	211	126+
Wall or window mounted	211	88
Sample case	190	17
Slide projector	40	361+
Special receptacle	206	557+
Tobacco ash receiving	131	231+
Trunk	190	35
Warming	D 7	363
Tread		
Burglar alarm operated by	116	98
Electric circuit controller	200	86R
Burglar alarm	340	565
Railway car wheel	295	31.1+
Railway rail with	238	122+
Joint with bridge	238	218+
Surface per se	238	148
Resilient tire		
Antiskid	152	208+
Armored	152	167+
Shoe antislip	36	59C+
Testing	73	146
Abrasion or rubbing	73	8
Vehicle step	280	169
Wheel guard	293	58
Treadle		
Closure actuator	49	263+
Grinding wheel mount	51	167
Levers	74	512+
Machine element	74	561
Sewing machine conversion	112	217.4
Trackmans car drive	105	93
Treadmill		
Closure operating	49	262
Exercising devices	272	69
Motors	185	
Occupant propelled vehicle	280	228
Treasure Locator (See Prospecting)		
Tree		
Covers	47	20+
Felling	144	34R
Portable circular saw	30	360+
Hacks	30	121
Handlers for trees & poles	414	23
Husbandry	47	
Imitation	428	18+
Tree- like ornament lighted	362	123
Impregnation	47	57.5
Plants		
Broadleaf	PLT	51+
Conifer	PLT	50
Fruit	PLT	33+
Nut	PLT	30+
Ship masts		
Cross and trestle	114	92
Shoe	12	114.2+
Stand for supporting	248	519+
Supports and props	47	42+
Surgery	47	8
Trunk		
Guards	47	23+
Insect traps	43	108
Trellis	47	44+
Design	D25	100
Tremolos	381	62
Brass wind instrument tremolo	84	401
Electric oscillator having	331	182
Electric tone generator tremolo	84	629
Fan tremolo for reed organs	84	374
Stringed instrument	84	313
Valve tremolo for pipe organs	84	348
Trepan	606	176+
Trephine	606	172+
Trestle		
Scaffold or saw horse	182	181+

	Class	Subclass
Unitary foldable	182	153*
Tire setter	157	7
Trees ship mast	114	92
Type propped extension ladder	182	105
Triamcinolone	552	566
Triangle		
Geometrical instrument	33	474
Musical instrument	84	402*
Reflective triangle for highway use	40	903*
Triarylmethyl	552	101*
Triazines	544	3*
Azo compounds	534	751*
Stilbene ctg.	544	193.1
Triazoles, 1,2, 3-	548	255*
Triazoles, 1,2, 4-	548	262.2*
Triazolobenzodiazepinone	540	499
Tricarballylic Acid	562	590
Esters	560	190*
Trichloracetic Acid	562	602
Esters	560	226*
Trickler		
Coffee pots	99	306
Heat exchanger	165	115*
Ice melt cooler	62	312*
Process	62	64
Textile treating	68	205R*
Trickling Filter	261	94*
Liquid purification	210	150*
Processes	210	601*
Tricot Knitting Machine	66	87
Tricycle (See Velocipede)		
Design	D12	112*
Triethanolamine	564	506
Triethylene Diamines	544	351
Trigger (See Trip and Trigger)		
Circuits		
Electronic tube type	328	191*
Gas tube type	315	
Firearms	42	
Triglycerides	436	71*
Trigonometry, Teaching	434	211
Trimellitic Anhydride	549	245
Trimmers (See Cutters)		
Billiard cue	30	494
Brick	425	289*
Brick	83	
Burner wick	431	120
Capacitor	361	271*
Cigar and cigarette	131	
Condenser	361	271*
With inductor	334	78*
Cooking mold	99	430
Embroidery	83	910
Farriery hoof	168	48.1*
Hat	223	24
Hedgerow	56	233*
Lawn	172	13*
Photograph	83	
Pie	425	293
Plastic block press	425	289*
Sewing machine	112	122*
Attachment	112	130
Sheet cutting	83	
Scrap cutting	83	923
Shoe inseam machine	12	4.3
Shoe sole and heel edge	12	85*
Textile selvage	139	302*
Waffle iron drip	99	375
Trimming		
Apparel	223	44*
Design	D 5	7*
Battery grid	83	903*
Brush and broom	300	17
Cartridge case	29	1.32
Chain sizing and	59	29
Dental plaster	433	144
Design	D 5	7*
Garment	2	244*
Making and attaching	223	44*
Gun	42	85
Harness	54	75*
Design	D30	134*
Hat	2	186
Banding	223	22
Brim	223	16
Horseshoe	59	59
Leather skiving and splitting	69	9.3
Packages	206	389*
Pearl button surfacing	79	10
Screw threading dies	408	215*
Shoe sole and heel machines	12	
Design	D15	122*
Stock material	428	
Woodworking box shaping	144	135
Trinitrotoluene	568	935
Containing	149	
Explosives containing	149	69
Explosives containing	149	107
Triode	313	293*
Amplifier	313	293*
Detector amplifier	313	293*
Diode high mu	313	303
With two cathodes	313	5
Diode pentode	313	298
With plural cathodes	313	6
Direct coupled twin	313	3
Double	313	301
With two cathodes	313	6
Dual grid	313	297
Duo diode	313	303
Duplex diode	313	303
With plural cathodes	313	5
Duplex diode high mu	313	303
With two cathodes	313	5
Gas	313	581*
Hot cathode type	313	592
Germanium	357	
Heptode converter	313	298
With two cathodes	313	6
Hexode converter	313	298
With two cathodes	313	6
High frequency	313	293*
High frequency twin	313	301
With two cathodes	313	6
High mu	313	293*
High mu twin	313	301
With two cathodes	313	6
Low mu	313	293*
Low mu uhf	313	293*
Medium mu	313	293*
Medium mu twin	313	301
With two cathodes	313	6
Power amplifier	313	293*
Power amplifier twin	313	301
With two cathodes	313	6
Triple diode	313	303
With plural cathodes	313	5
Triple diode high mu	313	303
With plural cathodes	313	5
Twin	313	301
With two cathodes	313	6
Twin power amplifier	313	301
With two cathodes	313	6
Two grid	313	297
U H F	313	293*
Trioxane	549	367
Trip and Trigger		
Animal trap	43	58*
Belt conveyor unloader	198	633*
Cable hoist	212	116
Closure fastener	292	332*
Electric switch latch trip		
Clock train	200	398*
Double snap, blocked	200	411*
Double snap, restrained	200	415*
Electromagnetic	335	174*
Reciprocating	200	434*
Single snap, blocked	200	470
Single snap, restrained	200	471*
Thermal current	337	70*
Expansible chamber motor		
Trip gear	91	338
Firearm	42	70.1*
Guns and ordnance	89	27.11*
Automatic gun	89	132*
Electric	89	28.5*
Harvester		
Shocker	56	401*
Mechanical gun	124	31*
Odometer	235	97
Operated file cutter	76	15*
Planting		
Depositing mechanisms	111	34*
Railway		
Cable gripper	104	205*
Railway switches and signals		
Derailment contact trips	246	171*
Track trip automatic electric	246	76
Track trips	246	201*
Train trips	246	359*
Released valve	251	66*
Rotary printing member	101	234*
Saw setting		
Pivoted set	76	62
Sliding set	76	67
Ship anchor	114	210
Swinging door lock	70	157
Trip mechanisms	169	DIG. 3
Trips	74	2*
Compressing and binding	56	436*
Vehicle brake operator	188	111
Vehicle fenders		
Dash and wheel	293	33
Drop fender	293	34*
Tripelennamine, in Drug	514	352
Triphenylmethanes	552	101*
Triple		
Bond hydrocarbon		
Purification	585	800*
Synthesis	585	534*
Diode	313	1
Mirrors	350	102*
Tripod	248	163.1*
Camera supports	354	293
Design	D16	244*
Ladder prop	182	169
Support stand	248	163.1*
Heads	248	177*
Trirams	114	61
Trituration	241	
Trocars	604	264*
Trolley		
Crane	212	142.1
Swing boom carries	212	250*
Vertically	212	257
Excavating		
Cable operated trolley supported	37	117
Ladders	182	36*
Linear traversing hoists		
Rope carrier	212	119
Railway		
Collectors	191	50*
Conductors	191	338*
Nonretracting trolley stops	191	95
Rails	104	106*
Retrievers	191	85*
Suspended single rail	105	148*
Transfer	104	96*
Railway switches	246	419
Trolley actuated controller automatic	246	84
Trolley actuated controllers	246	252
Trolley completed circuits	246	254
Wire support	191	40*
Trombones	84	395*
Electric transmission line	333	219*
Mutes	84	400
Section in high frequency transmission lines	333	33*
Tropanes	546	124*
Trophy	428	542.4
Design	D11	131
Tropine	546	127
Trotlines	43	27.4
Trough		
Animal feeding	119	61*
Design	D30	121*
Belt conveyor	198	818*
Burners	431	52*
Chute unloading	193	6
Closure	49	408
Dryer gravity flow	34	166
Flume	405	119*
Holder for soldering	269	
Railway track rail	238	129
Roof eaves	52	11*
Support	248	48.1
Sprinkler supply	239	724*
Vibrating conveyor	198	771
Wood sawing log transfer	83	707*
Trousers	2	227*
Design	D 2	202*
Undergarment	D 2	6*
Forms	223	72*
Guards and straps	24	72
Hangers	223	95*
Knee protectors	2	62
Leg guards attached to	2	23
Stretching	223	63
Union type	2	79
Trowels	15	235.4
Design	D 8	10
Handle fastening	403	

	Class	Subclass
Truck		
Antifriction thrust bearing		
Truck center	384	594
Truck side	384	595
Brakes	188	21+
Railway	188	47
Design of	D12	82+
Fork lift	414	529+
Garbage compacting	100	100
Hand	280	47.17+
Dumping	298	2+
Self loading	414	467
Hoisting	254	2R+
Ladder	182	63+
Hand truck	182	16
Land vehicle		
Body	296	
Freight accomodating	410	
Hand	280	47.17+
Hand dumping	298	2+
Multiple	280	81.1+
Swivel	280	86
Tongue	280	82+
Wheeled skate	280	11.27+
Motor vehicle		
Steered bogie	180	79.5
Plain thrust bearing		
Truck center	384	422
Truck side	384	423
Portable platform for	108	51.1+
Railway	105	157.1+
Brakes	188	47
Changers	104	32.1+
In conduit	104	139
Two car	105	4.1+
Semitrailer	280	423.1+
Accomodated on freight carrier	410	56+
Design of	D12	97+
Step climbing	280	5.2
Wheeled vehicle	280	29
Vehicle carrier	410	3+
Design	D12	94+
Trumpet		
Ear trumpet	181	129+
Music	84	387R+
Design	D17	11
Mutes	84	400
Textile		
Formed sliver trumpet	19	157
Sliver forming trumpet	19	150
Stop for sliver controlling trumpet	19	
Thickness working trumpet	19	
Trundles	446	450+
Reel carrying	242	94
Sounding device combined	446	411+
Trunks		
Baggage	190	19+
Design	D 3	70
Lighting in	362	156
Bed convertible to	190	2
Garment type	2	238
Knitted	66	176
Knitted union type	66	175
Insect traps for tree	43	108
Locks for	70	69+
Pneumatic dispatch systems	406	
Telephony	379	
Trays	190	35
Wardrobes	190	13R
Trusses	52	690+
Brake beams	188	219.1+
Bridge	14	3+
Coopering hoops	147	49
Curvilinear or peaked	52	639+
Frame for wood handsaw	30	506
Pole brace	52	146+
Rail joint rod	238	168
Railway car framing		
Freight	105	407
Passenger	105	399
Railway track tie	238	40+
Railway truck bolster	105	229
Ship yardarms	114	96
Surgical bandaging	128	95.1+
Vehicle axle	301	129
Whiffle tree	278	93+
Wire fence brace	256	36
Tryptamine	548	504
Tryptophan	548	496+
In drug	514	419
Tub (See Bucket; Vessel)		
Basin combined	4	553+
Bath	4	538+
Cabinet combined	312	228
Combined	4	546+
Masonry	52	264+
Metallic	220	
Railway amusement	104	59
Staved wooden	217	72+
Surgical	128	369+
Textile fluid treating	68	232+
Vegetable and meat cutter	241	199+
Wooden	217	
Tube (See Conduit; Pipe)	138	
Abrading	51	290+
Axle casing	74	607
Bell	116	169
Bobbin winding	242	46.3
Boiler		
Cleaning	122	379
Fire	122	44.1+
Fire and water	122	42+
Flue	122	135.1+
Sheets	122	512
Stand	122	13.1+
Structure and connection	122	511
Water	122	235.11+
Bourdon		
Gauge	73	732+
Switch	200	81.8
Braiding	87	9
With core	87	6
Burner gas and air mixers	431	354+
Capillary, refrigeration utilizing	62	511
Car propulsion pneumatic	104	156
Motor charging	104	159+
Cleaners for steam boiler tubes condensers and coolers	15	317+
Cleaning implements	15	104.3+
Closing end	228	60*
Collapsible tube	138	119
Collapsible tube squeezer holder	D 6	541
Collapsible wall type dispenser	222	92+
Combustion	431	350+
Compressor valve	251	4+
Connections for cycleframes	280	274+
Container or wrapper for coiled form	206	389+
Corrugating	72	176
Cutter	401	152+
Dispenser collapsible	222	92+
Applicator combined with means for collapsing	401	152+
Electric (See space discharge device)		
Assembling	445	
Apparatus	445	66+
Process	445	23+
Circuit systems	315	
Discharge type	313	
With gas or vapor envelope	313	634+
With particular envelope	313	317+
Electric lamp envelopes	220	2.1 R+
Illuminating lamp structure	313	
Lamp support	248	49+
Lantern	362	263+
Manufacture	445	
Evaporating	159	26.1+
In flue	159	39
Expander	72	393
Fire extinguishing	169	35
Flanger	72	317
Geissler	313	567+
Glass molding		
Curved	65	
Heat exchanger	165	177+
Inflatable	83	DIG. 3
Lantern	362	178
Electric	362	263+
Liquid cooler	62	389+
Liquid depth exploring	73	298
Making		
Bending	72	369
Boiler heater	29	890.3+
Cigar wrapping	131	58+
Compound, i. e. plural layers	228	126+
Corrugating	72	176
Drawing	72	283
Drawing and welding apparatus	228	17.5+
Expanding	72	393
Flanging	72	317
Laminated	156	
Paper tube making	493	269+
Plastic molding	425	72.1+
Rolling apparatus	72	95+
Rolling process	72	365.2+
Sewing	112	63
Sheet metal	72	49
Upsetting	72	353.2+
Welding apparatus	228	
Welding electric	219	59.1+
Welding process	228	101+
Winding strand on cylinder	242	7.21
Material	428	34.1+
Musical		
Brass	84	393
Organ reed	84	361
Piano pneumatic	84	57
Nasal medicator	128	203.12+
Paint	222	92+
Metal or metal foil	29	17.1+
Paper article making		
Cup	493	52+
Folding box	493	162+
Paper receptacle	229	93
Cylindrical	229	93
Paste tube	222	92+
Holder-dispenser	248	108
Squeezer-holder	D 6	541
Plastic molding reinforced	425	500+
Pneumatic dispatch tube or system	D18	35
Pneumatic stackers	406	154+
Portable drinking	239	33
Filter combined	210	251
Pump		
Jet regulator	417	182+
Rotary	415	88
Vibrating	417	241
Railway rail	238	134+
Railway tie	238	70+
Plastic reinforced	238	87
Plastic reinforced armored	238	97
Railway track pedestal	238	114
Ranque	62	5
Roentgen ray	378	121
Rolling	72	95+
Rubber bag or package	206	69
Sampling	73	864+
Shield for radio	174	35TS
Envelope	313	248
Part of tube	313	313
Siphon	137	123+
Smoking device	131	191
Speaking	181	18+
Splitters		
Implements	30	90.1+
Well tubing	166	55.2
Support	248	49+
Paste type	248	108+
Switch electric	337	228+
Testers electric	324	405+
Thermometer	374	139+
Tire inner		
Anticreep	152	500
Armored	152	195
Casing combined	152	166
Leakage test	73	49+
Structure	152	511+
Trolley rail	104	108
Vacuum (See space discharge device)		
Vortex, cooling	62	5
Washboard	68	230
Workpiece	428	586
Tuberculosis Antigens and Sera	424	88
Bath	4	538+
Tubular		
Light bulbs	313	
Tucker		
Cigar tip etc	131	89+
Grain harvester band	56	458+
Sewing machine work guide	112	144+
Tuft		
Brushing		
Detachable	15	194
Fasteners	15	190
Socket	15	191R+
Tufting		
Brush making machines	300	2+
Mattress	5	472
Textile		
Fiber preparation	19	215+
Pile loom replenishing	28	216
Pile pattern setting	28	214+
Pile weaving	139	2+

	Class	Subclass
Sewing machine for	112	80.1+
Sewing machine for	112	121.16
Tuft making	28	147
Tugs		
Harness		
Design	D30	137
Hame	54	32+
Saddle tug bearers	54	43
Thill	54	50
Ships	114	
Propulsion	440	33+
Tulle (See Net)		
Tumbler		
Brushing machines	15	75+
Gear	74	341
Cone combined	74	348+
Kitchen or table	215	
Locks		
Antipick	70	421
Compound	70	316+
Key	70	392
Key adjustable	70	384
Single key tumbler and ward	70	347
Single key tumbler type	70	348+
Structure	70	323+
Tumbler type	70	291+
Printing		
Bed	101	334
Bed selective or progressive	101	104+
Gripper attached	101	411
Tumbling (See Rumble)		
Abrading		
Machine	51	163.1+
Process	51	313+
Sand blast machine	51	422
Heat exchanging	165	88
Leather making		
Fluid treating apparatus	69	30
Skin removal	99	629+
Solid material comminution		
Apparatus	241	170+
Processes	241	26
Textiles fluid treatment		
Fluid extractor combined	68	24
Liquid flowing and	68	58+
Machines	68	139+
Scrubbing and	68	60
Scrubbing squeezing and	68	30
Squeezing and	68	61
Tank heater combined	68	16
Toy	446	168+
Figure	446	324
Tun Dish	266	275
Tuned Radio Frequency Radio Receiver	455	150+
Tuners (See Tuning)		
In radio set	455	150+
Musical instrument pitch pipe	84	454+
Radio	334	
With distributed capacitance and inductance	333	219+
Tungsten		
Alloys, ferrous	420	8+
Alloys, non-ferrous	420	430
Carbide	423	
Composite metal stock	428	665
Filament compositions	75	
Fluorescent or phosphorescent compositions ctg	252	301.5
Misc. chemical manufacture	156	DIG. 69
Organic compounds	556	57+
Pyrometallurgy	75	623
Tuning		
Forks	84	409
Electric driving means	310	15+
Electric filter element	333	186+
Electric generator	310	15+
Electric tone synthesis	84	723+
Oscillator	331	156
Tuning device	84	457
Indicator in radio	455	154
Music		
Accessories for giving pitch	84	454+
Chord group as in zithers	84	312R
Piano tuning device	84	200+
Reed organ	84	364
Tools	84	454+
Trombone tuners	84	396
Tuning pegs for strings	84	304+
Valve brass tuners	84	394
Radio	334	
Antenna	343	745+
Dial	116	241+
Electric motor operator	334	20+
Electrical indicator	455	154
Mechanical	74	10R
Mechanical limit stop type	192	138+
Tunnel	405	132+
Apparatus for making	405	138+
Excavating	299	
Head	202	244
Railway telltale signals	246	486
Recovery of fluid	299	2
Ventilation	98	49
Turban	D 2	256
Turbine	415	
Blade making	29	889.7+
Rotor making		
Apparatus	29	23.51
Process	29	889.2+
Casing making and assembling	29	889.2
Combustion	60	39.1+
Control and governor	415	13+
Cooling	415	175+
Earth boring combined	175	107
Exhaust treatment	60	685+
Flow meter	73	861.79+
Fluid pressure motor combined	60	698+
Fluid supply	60	643+
Generator drive	290	52
Hydraulic	60	330+
Internal combustion engine combined	60	624
Internal combustion engine combined	60	597+
Locomotive drive	105	26.5
Mixed fluid	60	649+
Multiple	60	698+
Nuclear reactor combined	376	378
Nuclear reactor combined	376	391
Nuclear reactor combined	376	402
Nuclear reactor combined	376	179
Pneumatic	60	643+
Pump drive	417	405+
Submarine drive	114	337
Torpedo drive	114	20.1+
Turfing, eg Chenille	112	80.1+
Turkey Red Oil	260	400
Turn Indicators		
Geographical	33	328+
Vehicle	116	28R+
Electric	340	465+
Turnbuckles	403	43+
Making	29	175.1
Forging dies for	72	343+
Turners (See Orienters)		
Beds		
Mattress and bed	5	412
Patient	5	61
Boot and shoe making		
Channel flap	12	30
Cheese	99	644
Earthenware pipe	414	754+
Foods and beverages		
Egg	99	644
Griddle	99	424
Toaster carrier or grid	99	395
Incubator egg	119	44
Locomotive drive wheel	105	85
Music leaf	84	486+
Pancake type	294	8
Plate	294	6
Wood	172	514+
Wood sawing		
Log	83	708+
Turning	82	
Inside out garments bags and tubes	223	39+
Bag sewing and	112	10
Screw threading and	408	20+
Screw threading and	408	22
Sewing machine guide for fringe	112	149
Shoe upper machine	12	57
Stone	125	10+
Wood	142	
Boring and	408	22+
Polishing and	144	47
Tenon	144	205+
Turnouts		
Rail	238	124
Railway switch		
Automatic	246	277
Stationary	246	427
Turnstile		
Antenna	343	797+
Coin trap	232	61
Design	D25	51
Gate	49	46+
Letter box trap	232	52
Operating register	235	93
Railway car entrance	105	341.5
Turntable		
Automobile	104	44
Freight carrier installed	410	1
Gearing windmill	74	381
Ladder truck	182	65+
Plural related surfaces	108	103+
Terraced	108	94+
Railway	104	35+
Locomotive	105	28
Trolley transfer	104	99
Rotatable base support	248	349
Single surface	108	139
Table self serving power driven	108	20+
Vehicle attached jack	254	421
Turpentine (See Terpene)	585	350+
Plant source extraction	47	10+
Turret		
Abrading work holders	51	
Aircraft type	89	37.21
Drilling multiple spindle	408	35
Metal working plural tools	29	33J+
Turrets	29	36+
Punching pliers	83	364
Screw threading multiple die	408	35
Warships	114	5+
Tuyeres		
Furnace	110	182.5+
Liquid heaters	122	6.6+
Metallurgical apparatus	266	265+
TV (See Television)		
Tweezers	294	99.2
Design	D28	55
Removing hair or splints	606	133
Surgical	606	210
Twine		
Holders	242	141+
Design	D 8	360.1
Making	57	
Polishing	28	219+
Twisting	57	
Twist		
Augers	408	230
Drills	408	230
Twisting and Twisters		
Conveyer belt unloading	198	831
Hold-down means	198	837+
Load held between belts	198	620+
Dough	425	319+
Dough	425	323
False	57	284+
Metal	72	299
Bending combined	72	64+
Mop wringing	15	263
Mop combined	15	120R+
Running length	72	64
Stocking support	2	337
Textile	57	
Lace fabric making	87	24+
Slat and wire fabric making	140	30+
Portable	140	39+
Twister heads	140	36
Warp thread uniting	28	210
Wire	140	149
Joining	140	118+
Portable slat and wire making devices	140	39+
Sheaf binding combined	56	132
Shocker combined	56	451+
Slat and wire fabric making	140	30+
Twister heads for slat and wire fabric making devices	140	36
Wrapping machine	53	370
Wringing	68	243
Twitchells Reagent	260	402
Fat cleavage with	260	416
Two Way Amplifier System	370	26+
Anti singing	379	345+
Telephone	379	338+
Echo suppressing	379	345+
Telephone	379	338+
Tying (See Baling, Banding, Bundling, Fastener, Knot & Knotting)		
Baling	100	
Building components	52	698+
Cords and strands	289	
Bags	53	134+

	Class	Subclass
Bags combined with filling	53	134+
Dies for wire	140	116
Sewing machine stitch forming	112	156
Warp replenishing for looms	28	211
Tympani	84	419
Type		
Casting	199	
Metalworking		
Finishing and grooving	29	24
Printing	101	398+
Blanks and processes	101	401.2+
Border or ornamental design	D18	32+
Continuously rotating type head	400	901*
Design	D18	24+
Foreign alphabet type face	D18	25
Groove	101	381
Script fonts	D18	28
Setting	276	
Lead handlers	276	34
Telegraphy		
Wheel recorder	178	38+
Wheel recorder combined	178	35
Typewriter	400	
Cabinet type housing or support	312	208
Carriage feed, stepping motor for	400	903*
Carrying case	312	208
Chemical symbol character	400	900*
Collocating gauge	33	658
Controlled by speech	178	31
Cover	312	208
Cryptographic	400	89+
Design	D18	1+
Manifolding devices	400	497+
Pad	D19	99
Printer combined	101	46
Ribbon	400	237+
Testing	73	14
Subscript or superscript character	400	904*
Table	312	21+
Telegraphic transmitter combined	178	81
Typed-head continuously rotating	400	901*
Typing instruction	434	227+
Web feed, stepping motor for	400	902*
Word counter	235	102
Tyrosine	562	445
In drug	514	567
Udder Shields	119	146
Uhf Transmitter	455	91+
Uhf Triode	313	293+
Ukulele (See Guitar)		
Ullage Rods	33	721+
Ultramarine	106	414
Ultrasonic (See Supersonic)		
Bonding, non-metallic	156	73.1+
Dental device	433	119
Dispensing	433	86
Used in reaction to prepare inorganic or organic material	204	157.15+
Used in reaction to prepare or treat synthetic resin or natural rubber	522	100+
Vibration measuring & testing	73	570
Welding	228	1.1
Ultraviolet (See wave energy)	228	110+
Ultrasonic Repeller	D22	120
Ultraviolet (See Wave Energy)		
Anti-ultraviolet fading	430	931*
Apparatus and applications	250	493.1
Arc lamp generator	313	112
Arc lamp generator	314	
Bleaching processes	8	102
Chemical reactor apparatus	422	186.3
Drying processes	34	4
Dyeing processes	8	444
Filters	350	1.1+
Generators	250	504R+
Lamp supply circuits	315	
Lamps structure	313	112
Photographic applications	354	
Preserving sterilizing and disinfecting methods	422	24
Ray treatment	250	428+
Food preserving	426	
Sterilizing	422	21+
Signaling with	455	600+
Solar drying apparatus	34	93
Sterilizing food & beverages	426	248
Surgical	128	362+
Treatment of fluids	250	428+
Used in reaction to prepare inorganic or organic material	204	157.15+
Used in reaction to prepare or treat synthetic resin or natural rubber	522	1+
Umber	423	
Umbrella	135	20R+
Awnings	160	53
Carrier body and belt attached	224	186+
Folded umbrella	224	915*
Combined with other devices	135	16+
Design	D 3	5+
Frame making	29	25
Handles	D 3	12+
Locks	70	59
Rack	211	62+
Sewing tips to cover	112	104+
Stand	D 6	416
Sticks	135	65+
With electric light	362	102
Unauthorized Copy Prevention		
Electrophotographic copier	355	201
Unbalanced to Balanced		
In an amplifier stage	330	117
With phase inverter	330	117
Uncoupling		
Railway coupling	213	211+
Cushioned hand controlling	213	17
Janney type	213	159+
Undercharts	54	57
Undercutting		
Block molding machines	425	289+
Patterns	164	245
Underframes		
Land vehicle	280	781+
Dropped frames	280	2
Railway car	105	413+
Tables	248	163.1+
Surface separable from support	108	157+
Undergarments	D 2	1+
Underground		
Antennas	343	719
Conduits	138	105
Electric cable	174	37+
Electric conductor	174	37+
Shelter	52	169.6+
Water locator	181	
Underpinning	405	230
Undertaking	27	
Body preparation	27	21.1+
Coffins	27	2+
Compositions	424	75
Underwater		
Boat design	D12	308
Camera	D16	204
Earth boring	175	5
Explosive spear	102	371
Guns	42	1.14+
Wells, submerged	166	335
Underwater Use	106	639
Cement compositions	106	639
Underwear		
Drawers	2	400+
Knitted	66	170+
Particular to female	2	406+
Particular to male	2	403+
Union type		
Bifurcated	2	78R+
Skirted	2	73
Unisex	2	400+
Waists	2	109+
Unearthing Plants or Buried Objects	171	
Unicyclic Non-repeat		
Cutting machine actuation	83	203+
Selective cutting or punching	234	51
Uniforms	2	
Design bifurcated	D 2	30
Design dress with apron	D 2	85+
Union Suits	2	70+
Unipolar		
Generator system	322	48
Machine structure	310	178
Unitary Construction, Power Plant	60	916*
Uniting (See Assembling)		
Electrolysis	204	16
Nailing and stapling	227	
Glass molds	65	156
Glass processes	65	47+
Plastic molding	264	241+
Preform with molding material	249	83+
Warp threads	28	209+
Universal Joints	403	57+
Ball and socket	403	122+
Making	29	434+
Shafting	464	106+
Unloading and Unloaders		
Aircraft in flight	258	1.2+
Bin unloading by conveyor	198	550.1+
Chutes	193	4+
Conveyor belt	198	637+
Conveyor belt, impinging fluid	198	493+
Dump scows	114	27+
Marine type	414	137.1+
Moving train	104	18+
Nuclear reactor fuel removal	376	261+
Pump (See regulation)	417	279+
Railway dump cars	105	239+
Railway mail delivery	258	
Scattering non-fluid material	239	650+
Self unloading vehicles	414	467
Vehicle with external means	414	373+
Washing machines	68	210
Unmoderated Nuclear Reactions Fast	376	171
Unmoderated Nuclear Reactions Fast	376	348
Unpiling		
Articles	414	795.4+
Conveyors		
Bucket	198	701+
Bulk material	198	506+
Collecting from static support	198	519+
Establishing & moving groupings	198	418+
Rearranging streams of articles	198	434+
Unreeling	242	54R+
Round hay bale handling	414	24.6
Unsaturation		
Acrylic esters preparation	560	205+
Carboxylic acid esters		
Acyclic	560	205
Alicyclic	560	128
Aromatic	560	8
Monocyclic	560	104
Diolefin preparation by	585	616
Fatty oils or acids	260	405.5
Olefin preparation	585	654+
Untwisting (See Twisting)	57	1UN
Unwinding	242	128
Preventers	206	53+
Unwrapping		
Apparatus	57	1UN
Warp preparation including	28	176
Upholstery		
Bed bottom & pad	5	401+
Chair bottoms and backs	297	455+
Making	29	91+
Machines for sewing	112	121.23
Mattress or cushion	5	471+
Separable cover	5	470
Stuffing	53	524
Trim	428	123
Tufting button fastener	24	902
Uppers		
Lacing	12	58.5
Loose shaping	12	54.1
Shoe	36	45+
Design	D 2	264+
Making machine	12	51
Sole attaching outturned	36	16
Upsetting		
Forging press for	72	
Bolt heading	10	11R+
Dies	72	395
Tire	72	305
Tire with cutting punching etc	29	22
Uracil, in Drug	514	274
Uranium		
Alloys	420	1+
Compositions, radio active	252	625+
Compound recovery, inorganic	423	253+
Electrolytic production	204	1.5
Metallurgy	75	398+
Misc. chemical manufacture	156	DIG. 109
Nuclear fuel material	376	180
Nuclear fuel material	376	409
Nuclear fuel material	376	901
Organic compounds	534	11+
Ureas	564	32+
Acyclic	564	58+
Adducts	564	1.5
Alicyclic	564	57
Aromatic	564	47+
Disazo compounds	534	817+
N-nitro or N-nitroso	564	33
Resins from aldehydes with	528	259+
Stabilized or preserved	564	3
Sulfo acids	562	47+

	Class	Subclass
Synthetic rubber or natural rubber accelerator	525	346*
Testing for	436	108*
Tetrakisazo compounds	534	807
Thio	564	17*
Urea per se or salt, preparation	564	63
From ammonia & carbon dioxide	564	67*
From ammonia & carbon monoxide or carbon oxysulfide	564	65
From ammonium carbamate	564	166
From cyano compound	564	64
Purification or recovery	564	73
Ureides (See Ureas)		
Urethane	560	157
Urethrorrhoeal Collectors of Body Fluids	604	317
Urethroscopes	128	7
Urethrotome	606	170
Uric Acid	544	266
Tests for	436	99*
Urinals		
Design	D23	302
Dry closet	4	144.1*
Guards	4	DIG. 5
Water closet	4	301*
Urinalysis Apparatus	422	68.1*
Test kit	D24	17
Urine collector	D24	54
Urns		
Burial	27	1
Design	D99	5
Top for heating stove	126	219
Urological (See Surgery)		
Urotropin T M	544	185
Usnic Acid	549	461
Utility		
Meter	D10	99*
Vaccination		
Applier	604	46
Packaged	206	367
Shield	128	888
Vaccine	424	88*
Vaccine	424	
Vacuum (See Evacuating Receptacles; Suction)		
Agitating in	366	134
Bottle	215	12.1
Design	D 7	608*
Bracket attaching by	248	205.5*
Bracket holding article by	248	309.3
Brakes	188	
Distribution system	303	
Breaking for backflow prevention	137	215*
Bulbs or tubes		
Apparatus for glass bulb manufacture	65	270
Arc lamp enclosed	313	
Electric discharge lamp	220	2.1 R
Electron tube manufacture	445	
Electron tube structure	313	
Evacuating	141	65
Incandescent lamp	313	315*
Manufacture miscellaneous	445	
Process for glass bulb manufacture	65	34*
Chuck	279	3
Cleaners (See air, blast or suction cleaning)	15	300.1*
Cleaner attachment	D32	31*
Convertible	15	328*
Design of machine	D32	21*
Nozzles	15	415.1*
Pipe joint	285	7
Street sweeper type	15	340.2
With dirt filter	15	347*
With mechanical agitator for work	15	363*
Cleaning methods	134	21
Coating combined	427	294
Distillation	203	73*
Distillation	203	91*
Mineral oil	208	366
Mineral oil rectification	208	357
Thermolytic	201	35
Evaporators concentrating	159	22*
Food preparation apparatus	99	472
Gauges	73	700*
Liquid level testing	73	303
Hoist	294	64.1*
Holddown	248	362
Insulated conductors	174	8*
Metal treatment		
Air blast &/or vacuum conveyor	29	DIG. 78
Casting	164	61*
Metal working digest	29	DIG. 44
Purifying	75	
Vaccuum exhaust type	29	DIG. 84
Motor	91	
Systems	60	407*
Pumps	417	
Design	D15	7*
Dredger combined	37	59
Receptacle	220	420*
X-art collection	206	829*
Receptor for body discharges	604	218*
Rectifier full wave high	313	306
Refrigeration	62	
Vapor discharged	62	268*
Vapor discharged, process	62	100
Resuscitation devices	128	30
Skinner for fruit	99	584
Support	248	363
Abrasive	51	362
Tube (See space discharge device)		
Keyer	328	193*
Keyer in transmitter	375	68*
Tester	D10	77
Wall for railway freight car	105	357
Work holders	269	21
Valances		
Bed	5	493
Curtain	D 8	373*
Land vehicle top	296	135
Trunk	190	28
Valises	206	278*
Valley Roof Gutter	52	13*
Valve (See Faucet)	251	
Acetylene generator	48	58
Carbide feed	48	38*
Actuation	251	
Electric	251	129.1*
Digest	261	DIG. 74
Floor controlled spittoon	4	280
Gas & liquid contact apparatus	261	DIG. 53
Gas heated tool controlled	126	234
Gravity controlled spittoon	4	281
Internal combustion engine	123	188R
Poppet	123	90.1
Manual	251	213*
Pneumatic displacement pump	417	118*
Pump controlled	417	510*
Time controlled	137	624.11*
Time variation, internal combustion engine poppet	123	188A*
Wind operated ventilator	98	117
Wind operated ventilator cowl	98	74
With time indicator	137	552.7
Applying and removing apparatus	29	213.1*
Automatic		
Drain	137	177*
Fire extinguisher	169	19*
Fluid brake equalizing	303	33
Hose holder and fluid supply	239	196
Sewerage catch basin	210	109*
Sewerage trap	137	247.15*
Trap	137	171*
Window ventilator	98	95
Balanced		
Reciprocating	251	282
Rotary	251	283
Butterfly	251	305*
Check		
Ball	137	329.3
Flow meter	73	276
Pivoted	137	527*
Pump	417	559*
Radiator vent	137	511*
Reciprocating	137	528*
Siphon bowl	4	426*
Wells, in	166	325*
Combined with support	251	143
Design	D23	233*
Diaphragm	350	266*
Dispensing	222	544*
Pressure operated	222	491*
Resilient type	222	490
Electrically actuated	251	129.1*
Circuit makers and breakers	200	61.86
Engine distributing	91	218*
Liquid pump	417	505
Lubricator	137	630.16
Railway switch	246	140*
Electro optical	350	355*
Polarized light	350	374*
Engine igniter combined	123	151
Float	137	409*
Animal water supply	119	78*
Automatic dispenser	222	67*
Bath or basin fitting	4	205
Closed fluid heater	236	31
Flow meter plural chamber	73	221
Flow meter single chamber	73	224
Funnel	141	199*
Funnel air displacement	141	199*
Pneumatic displacement pump	417	126*
Pump regulator	417	40*
Radiator relief	236	65
Steam trap	137	192*
Temperature regulating	236	52
Thermal trap	236	53
Water closet	4	395*
Water purifier	210	97*
Fluid brake system		
Equalizing	303	33*
Motormans	303	50*
Pipeless	303	90
Fluid motor distributing	91	218*
Fluid pressure actuated	251	12*
Boiler feeder	122	451.2
Engine distributing	91	281*
Fluid flow meter diaphragm	73	271
Fluid flow meter piston	73	249
Fluid flow meter plural	73	220
Liquid pump	417	507
Lubricator reciprocating	184	76
Lubricator rotatable	184	72
Radiator vent thermal	236	61
Receptacle filling	141	
Steam trap	137	171*
Trap thermal	236	54
Fluid pressure regulating	137	505*
Fluid pressure relief	137	455*
Receptacle filler	141	
Fluid servomotor	91	418*
Flush		
Actuation	251	15*
Actuation closet combined	4	249*
Siphon bowl	4	422*
Spittoon	4	266
Water closet bowl	4	435*
Gas motor	415	148*
Gate		
Pastry nozzle	425	381.2
Pastry nozzle	425	461*
Pivoted	251	298*
Pivoted check	137	527*
Reciprocating	251	326*
Grinder	51	27*
Gun muzzle	89	31
Inflating		
Chuck or gauge combined	137	223*
Pressure regulation	137	224*
Inlet or supply		
Gas separation	55	418*
Internal combustion engine	123	188M*
Sand blast machine	51	436
Sewerage trap	137	247.13*
Spittoon	4	282
Street curb for drainage	404	4*
Internal combustion engine	123	188R*
Large area valve, motor art	91	DIG. 3
Larner johnson type internal hydraulic	137	219*
Light	350	353*
Light	350	359*
Liquid	137	251.1*
Thermal	236	50
Locks		
Automotive fuel	70	242*
Combined	70	175*
Combined operation	137	384.2*
Lubricator	184	86
Making repairing and assembling		
Applying and removing apparatus	29	213.1*
Fluid motor and pump process	29	888.4*
Process	29	890.12*
Refitting by milling	409	64*
Measuring	222	424.5*
Mixing		
Plural valves	137	602*
Motormans air brake	303	50*
Multiple	137	
Gas & liquid contact apparatus	261	42*

	Class	Subclass
Multiway unit	137	625+
Bypass	137	599+
Gate	137	625+
Plural valves sequential opening	137	630.16
Plural valves single outlet	137	602+
Unit	137	625+
Music (See music)		
Needle valves	261	DIG. 38
Optical element displaced or rotated	350	484
Oscillating		
Fluid flow meter combined	73	268
Outlet exhaust and discharge		
Bath or basin	4	203+
Bath or basin fitting	4	194
Bath or basin overflow	4	198+
Bath or basin trap	4	197
Filter	210	418+
Filter, faucet attached	210	449
Four cycle engine	123	84+
Furnace ashpan	110	169
Furnace spark arrester	110	129
Gas separation	55	417
Grain huller	99	611
Internal combustion engine	123	188R+
Sewerage catch basin	210	109+
Sewerage trap	137	247.13+
Spittoon	4	266
Spittoon floor orifice	4	276
Water closet	4	378+
Pipe	251	
System	137	
Piston for pump	417	481+
Pivoted	251	298+
Check	137	527+
Closet bowl	4	421+
Cowls	98	74
Register	98	102
Position indicator	116	277
Pressure reducing and regulating	137	505+
Pressure relief	137	455+
Puppet or poppet	251	82
Abrading machine	51	29
Acetylene generator	48	53+
Coolant containing	123	41.16
Four cycle engine	123	79R
Internal combustion engine	123	188A
Making	29	888.4+
Radiator vent	137	455+
Thermostatic	236	61+
Reciprocating	251	318+
Animal watering	119	80
Biased check	137	528+
Engine nozzle	239	584+
Furnace ashpan	110	169
Gate	251	326+
Lubricator horizontal	184	79
Lubricator vertical	184	74+
Reversing	137	309+
Refrigeration expansion	62	527+
Automatic	62	222+
Regulator		
Fluid pressure	137	505+
Pump	417	279+
Removal tool	29	213.1
Reversing	137	309+
Reciprocating regenerating furnace type	137	309+
Rotary regenerating furnace type	137	311
Rocking and oscillating		
Animal watering	119	79
Four cycle engine	123	81R
Lubricator	184	34
Ventilator cowl	98	74
Wall register	98	106
Rotary or oscillating		
Disk	251	304+
Floor register	98	102
Fluid flow meter	73	265+
Internal combustion engine	123	190R
Lubricator force feed	184	35
Lubricator gravity feed	184	71+
Plug	251	309+
Safety		
Acetylene generator	48	56
Boiler	122	507
Boiler feed heater	122	437
Fluid pressure relief	137	455+
High temperature cutoff	137	457
Muffler	181	237
Pipe break cutoff	137	456+
Seat grinders		
Abrading	51	27+
Milling	409	64+
Seat making	29	890.122
Fluid motor	29	888.44
Slide		
Abrading machine	51	30
Acetylene generator	48	55
Soda water type		
Combined with plural sources	222	129+
Multiple valve	137	170.1+
Nozzles	239	445+
Valve	251	
With agitating	366	195+
With deflector nozzles	239	499+
With fizzing stream	239	445
With multiple inlet nozzles	239	407
With variable discharge	239	435
Stem cap	138	89+
Combined tool	152	431
Packing	277	
Switch combined	200	61.86
Thermostat and temperature	236	
Burner combined	431	83+
Cutoff	137	457
Freeze responsive drain	137	59+
Throttle and engineers		
Fluid brake control	303	50+
Train control	246	189+
Tire	137	223+
Caps and cores	137	232+
Combined gauge	137	227+
Combined pressure regulator	152	431
Train control pipe	246	190
Well closures	166	316+
Valved Device		
Acetylene generator		
Flap	48	43
Bag closure	383	44
Filling	141	68
Filling	141	315
Barrel bung	217	99+
Bath basin	4	191+
Battery cell, weight actuated	429	85
Battery vent	429	53+
Blow-out type	429	56
Bottle		
Closure	215	311+
Nonrefillable	215	17+
Chute	193	21
Counterweight	193	20
Closet vent	4	216
Coating implement	401	
Cooking stove	126	52
Dispenser	222	
Drinking fountain	239	29
Bubble cup	239	31
Dry closet	4	466
Bowl	4	471+
Elastic	429	54
Excavating scoop	37	136
Filter	210	418+
Float	429	76
Fluid flow meter		
Diaphragm	73	265
Piston	73	248
Proportional	73	203
Fluid flow path	251	
Interlocking	48	83
Plate	48	52
Pop	48	53
Slide	48	58
System	137	
Fountain pen	401	
Funnel	141	344
Air displacement	141	297+
Gas and liquid contact apparatus	261	38+
Gas separator inflow control	55	418+
Gas separator outflow control	55	417
Heating gas purifier	48	170
Hoist bucket	414	657+
Illuminating fixture	362	394+
Inhaler	128	203.12+
Nasal	128	203.12+
Internal combustion engine		
Cooling	123	41.1+
Igniter	123	146
Liquid level gauge	73	332+
Lubricator		
Force feed pump	184	26+
Gravity feed	184	65+
Music brasses	84	388+
Pastry depositor	222	
Pastry depositor	425	381.2
Pastry depositor	425	461+
Piano pneumatic	84	60+
Bleeds	84	59
Pipe	251	
System	137	
Pipe organ		
Action	84	336
Key	84	342
Tremolo	84	348
Pipe taps	137	317
Piston		
Flow meter	73	248
Fluid motor	91	422
Internal combustion engine	123	47R
Pump	417	545+
Pump oscillating	417	484
Pump reciprocating	417	545+
Pneumatic tire		
Tire and valve stem	152	429+
Tool and valve stem cap	152	431
Wheel and valve stem	152	427+
Preserving apparatus	422	
Pump	417	559
Diaphragm	417	480
Regulator	417	279+
Receptacle filler	141	
Refrigeration producer	62	
Refrigerator, air controlling	62	408+
Automatic	62	186+
Blocking air at access opening	62	265+
Sand blast machine	51	436
Ship		
Plug	114	197
Sea cock	114	198
Ventilator	114	212
Sifter		
Discharging	209	258
Feeding hopper	209	246
Sink strainer	4	287
Smoking device	131	223
Sound muffler	181	254
Spray nozzle	239	569+
Deflector	239	506
Multiple outlet	239	562+
Whirler	239	476+
Strainer	210	156
In pipeline	210	418+
Multiple in pipeline	210	294+
Textile pounder	68	218
With plunger	68	217
Track sander	291	6
Traps		
Sewerage	137	247.13+
Steam	137	171+
Ventilation		
Air pump	98	116
Building inlet	98	41.1
Chimney cap	98	59
Thimbles	98	118
Water closet		
Bowl	4	434+
Siphon bowl	4	421+
Tank	4	378+
Vamp and Quarters	36	48+
Trimming machines	12	57.6
Vanadium		
Alloys, ferrous	420	127
Alloys, non-ferrous	420	424
Carbon compounds	556	42+
Compound stock	428	662
Electrolytic preparation	204	64R
Inorganic compound recovery	423	62
Misc. chemical manufacture	156	DIG. 106
Pyrometallurgy	75	622
Vanes		
Aircraft control	244	82
Ammunition and explosive device combined	244	3.24+
Drop bomb combined	102	384
Fuse arming	102	225+
Parachute flare	102	339
Rocket combined	102	348
Fluid flow direction measuring	73	188+
Forming working member for expansible chamber device	92	121+
Gate mounted wind balance	49	135
Meter	73	861.74+
Expansible chamber	73	232+
Pump	418	

	Class	Subclass
Ships log	73	186+
Signaling (See semaphores)		
Turbine guide vane	415	148+
Ventilating cowl	98	61+
Windmill guide vane	416	12+
Vanillin	568	442
Vanity		
Cases or compacts	132	293+
Absent non-coating article eg, mirror	401	118+
Illuminated mirror	362	136
Vapor (See Gas)		
Baths	4	524+
Coating	427	248.1+
Condenser	165	110+
Contact with solids	34	
Cookstove	126	44
Design	D 7	339+
Deposition	118	715+
Process to form semiconductor P-N type junction	437	
Doping, semiconductor	118	900*
Process to form junction	437	
Electric lamp	313	567+
Arc	313	567+
Lanterns	362	263+
Electric space discharge tubes	313	567+
Generator for disinfecting	422	305+
Heating burners	431	161+
Heating burners	431	207+
Heating stoves	126	95
Liquefied or solidified	62	8
Medicators	604	23+
Testing for explosive		
Catalytic	73	25.1+
Miners lamp	362	164+
Therapeutic baths	128	367+
Thermometer	374	201+
Treating	34	
Cabinets	312	31+
Coating processes	427	335+
Distilled vapors treated	203	
Distilled vapors treated	201	29
Gases with separation	55	
Mineral oil vapors treated	208	3
Textile apparatus	68	5R+
Textile processes	8	149.2+
Tube amplifying system	330	41
Vaporizer Making	29	890.7
Vaporizing and Vaporization	122	
Concentrators	159	
Design	D23	360+
Distilling	201	
Distilling	203	
Drying	34	
Electrical heating for	392	386+
Fumigators	43	129+
Heat motors	60	531
Heat or energy exchange agents	252	67+
Internal combustion engines	123	250+
External vaporizing	123	522+
Jet gas pumps	417	152+
Liquids	122	
Medical inhalers	128	203.12+
Mineral oils	208	
Nuclear reactors involved in	376	370
Nuclear reactors involved in	376	371
Nuclear reactors involved in	376	378
Pumps	417	208+
Recovery of actinide compounds by	423	249
Refrigeration	62	
Resolving colloids by	252	346+
Vaporizers	261	DIG. 65
Variable Capacitor	361	277
With variable resistor	323	354
Variable Denier		
Extruding apparatus	425	76
Stretching	28	243
Variometer	336	115+
Radio tuning system	334	62
Varnish		
Asphalt	106	273.1+
Fatty oil	106	246+
Natural resin		
Fatty oil	106	220+
Polymer ctg (See synthetic resin or natural rubber)		
Solvent	106	236
Removing	134	38
Materials	252	89.1+
Varnishing	427	
Shells	86	17
Vase	D11	143+
Vasodilators	424	
Vasopressin	530	315
Vats (See Vessel)		
Cheese	99	452+
Metallic and miscellaneous	220	
Textile fluid treating apparatus		
Movable carrier in vat	68	157
Separate centrifuge and vat	68	26
Vat or sulfur dyeing	8	650+
Several dyes including	8	642
Textile printing	8	453
Textile printing	8	461
Wooden	217	4
Vaulted Roof Design	D25	18+
Vaults		
Building lights	350	258+
Burial	52	128+
Lifting or handling	52	124.1+
Design	D99	1+
Dry closet	4	474+
Road or pavement vault cover	404	25+
Design	D25	36
Var (See Recording and Recorders)	360	33.1
Vegetable		
Cleaning		
Apparatus brushing or wiping	15	3.1+
Apparatus liquid treatment	134	
Processes	426	478+
Coffee substitutes from	426	594
Comminuting machines	241	
Cutting, comminuting, peeling, paring	99	588+
Fluid or chemical	426	287+
Fertilizers from	71	23+
Fibers		
Liberation chemical	162	1+
Liberation mechanical	19	
Gathering	56	327.1
Digger type	171	
Grating	241	95+
Jellies	426	573+
Juices	426	599+
Peeling	99	584+
Pit stem or core removal		
Corers	99	544+
Processes	426	484+
Seeders and stoners	99	547+
Stemmers	99	635+
Planter	111	913*
Preservation	426	321+
Canning	426	392+
Coating	426	289+
Dehydration	426	471+
Refrigeration	426	524
Protein foods	426	656
Stalks		
Retting	162	1+
Retting bacteriological	435	277+
Synthetic resins from extracts	528	1+
Vegetation		
Fuel	44	605+
Briquette	44	589+
Hydrocarbon recovery from	585	240+
Imitation	428	17+
Treated	428	17+
Vehicle (See Specific Type)		
Air	244	
Air bag passenger restraints	280	728+
Air conditioner	D23	351+
Air cushion	180	116
Cushion design	D12	5
Animal draft appliances	278	
Attachments		
Abrading	51	258
Antennas	343	700R+
Automobile carried	40	591
Body lifters	254	48
Cutting tool	83	928
Electric lamps	315	77+
Fluid sprinkling etc	239	172+
Jack	254	418+
Land	280	727+
Land wheel ornament	301	37R
Load accomodating on freight carrier	410	
Package and article carrier	224	273+
Receptacles	224	273+
Sifter support	209	421
Steps	280	163+
Weigher	177	136+
Automobile (See automobile)		
Bevel gear	74	424
Bicycle	280	200+
Bodies and tops	296	
On & off freight load bearer	410	52+
Body ornament	428	31
Brake operator		
Automatic	188	110+
Fluid pressure	188	152+
Multiple	188	106R+
Speed responsive	188	181R
Spring	188	167+
Vehicle step	188	108
Weight	188	176+
Brake position adjusters		
Supports	188	208
Vehicle body movement	188	190+
Brakes	188	2R+
Clutch combined	192	13R
Cab or body		
On & off freight bearer	410	52
Car (See car)		
Carriers, attachable	224	273+
Carriers, attachable	294	904*
Cleaning	15	53.1+
Apparatus	134	123
Railway car brushing machines	15	54
Collision avoidance	367	909*
Compositions coating or plastic	106	311
Computer controlled, monitored	364	424.1+
Control calculator	364	424.1+
Convertible	280	30+
Cycle	280	200+
Dials	D12	192
Draft devices	280	400+
Animal	278	
Draft appliances	213	
Dumping	298	
External cooperating means	414	373+
Railway	105	239+
Electric power		
Locomotive	104	35+
Locomotive	104	49+
Motor vehicle, traction motor	180	65.1+
Motors	D13	112
Electricity transmission to	191	
Excavators		
Self loading	37	4+
Vehicle actuated scoops	37	132
Fender	293	
Design	D12	186
Floor mat design	D12	203
Fluid cushion	180	116+
Fluid handling device supported by	137	899+
Freight accomodating	410	
On & off freight container	410	52+
Gas pumps and fans		
Combined	417	331+
Fans combined	416	146R
Operating devices vehicle actuated	417	231+
Ground effect	180	116+
Headlights and spotlights	362	61+
Design	D26	28+
Headrest	D 6	501
Heat and power plant	237	12.3 R
Motor vehicle boiler plants	122	3
Heating	237	28+
Heating and cooling	165	41
Inflatable passenger restraint	280	728+
Instrument panel	D12	192
Land (See land vehicles)	296	
Bodies & tops	296	
Dumping	298	
Freight accomodating	410	
Motor	180	
License plates	40	200+
Lighting	362	61+
Circuits	315	77+
Design	D26	
Loading and unloading		
Chutes	193	5
Dumping	298	
External cooperating means	414	373+
Self loading or unloading vehicles	414	467+
Locks	70	237+
Medicine		
Inorganic	514	769+
Organic	514	772+
X-art collections	514	800+

	Class	Subclass
Mirrors	350	600*
Mirror frames	52	
Plural	350	612*
Plural combined	350	612*
Signal	350	97
Moped	180	205*
Motion picture	352	132
Motor	180	
Boiler plants	122	3
Supports	248	637*
Motorcycle	180	210*
Two-wheeled	180	218*
Tandem	180	219*
Movement display	434	305
Operation teaching	434	30*
Periscopes	350	540*
Railways	104	
Freight accomodating	410	
Rolling stock	105	
Making	29	168*
Refrigerated	62	239*
Automatic	62	133*
Process	62	61
Root rack	D12	157
Running gear		
Land vehicle	280	80.1*
Railway trucks	105	157.1*
Suspension	280	688*
Stub axle mounts	280	660*
Safety belt or harness	280	801*
Passive	280	802*
System responsive	180	268*
With seat structure	297	468*
Safety guard	280	748*
Safety promoting means	180	271*
Seat belt passenger restraints	280	801*
Seats	297	195*
Shelter support	135	88*
Signals	340	425.5*
Simulators	434	29*
Snowmobile	180	182*
Special purpose	D12	1*
Springs	267	2*
Steering mechanism moves pivoted lamp	362	37
Steering switches light system	362	36
Suction effect	180	164
Surface effect	180	116*
Suspension	280	688*
Springs	267	2*
Tires, resilient	152	
Tool driving or impacting device combined	173	22*
Tool, mounted	83	928*
Toy	446	431*
Design	D21	128*
Trains		
Draft appliances	213	
Electricity transmission to	191	11
Land	280	400*
Motor	180	142
Braking	188	112R*
Railway	105	1.4*
Braking	188	124
Tricycle	280	200*
Washer	134	123*
Head lamp	239	284.2
Windshield	239	284.1
Water, in ships	114	
Buoys, rafts, aquatic devices	441	
Marine propulsion	440	
Weigher combined	177	136*
Wheel propelled	280	3
Wheel substitutes	305	
Wheelchair (See wheelchair)	280	250.1
Wheels & axles (See axle; wheel)		
Axle making	72	
Land	301	
Railway	295	
Resilient wheels	152	
Wheel making	29	894*
Veils	2	207
Design	D 5	47*
Veining		
Textile dyeing	8	478*
Velcro T M	24	306
Belt fasteners	24	31V
Brackets attached by	248	205.2
Buildings, static structures digest	52	DIG. 13
Chairs & seats digest	297	DIG. 6
Separable fastener	428	100
Surgery digest	128	DIG. 15*
Velocipede		
Brake	188	24.11*
Canopies	135	88
Design	D12	107*
Figure toys	446	440
Land vehicle		
Coasters	280	87.1*
Convertible	280	7.1*
Dust and mud guards	280	152.1*
Occupant propelled	280	200*
Occupant steered	280	263*
Simulations	280	827*
Wheel guards	280	160.1
Windshields	296	77.1*
Racks	211	17*
Locking	211	5
Seats for	297	195*
Walkers nonsteered	280	87.2
Vending Machine	D20	1*
Veneer and Veneering		
Laminate	428	411.1*
Metal-to-metal	428	615*
Static mold on product or existing building structure	249	15
Tile adhered	52	390
Tile backer	52	384
Woodworking		
Lathe	144	209R*
Press	156	349*
Venetian Blind (See Blind)	160	166.1*
Cleaning machines	15	77
Wiping	15	102
Design	D 6	577
Making	160	405
Assembly	29	24.5*
Method	160	405
Tape cutting	26	11.4
Woven float cutting	26	7
Wood slat slotting	144	136R
Venom Extractors	604	314
Ventilators & Ventilated Items	98	
Abrasive tool or support	51	356
Aircraft cabin having	98	1.5
Automobile having	98	2*
Barrel	217	74
Bath closets sinks spittoons	4	209R*
Bed mattresses	5	468*
Fluid filled	5	453
Forced air heating, cooling	5	423
Blowers	415	
Boot or shoe	36	3R
Building	98	29*
Cabinets having	312	213
Car	98	4*
Chimneys	98	58*
Cleaning or polishing tool or support	15	230.1
Consumable electrode arc lamp having	314	26*
Cooking oven	126	21R
Cowls	98	61*
Crankcase	92	78*
Crates	217	42
Door	98	87
Dry closet		
Inclosed receptacle	4	477
Receptacle	4	482
Valved bowl	4	472
Vault	4	475
Electric batteries	362	74
Electric batteries	429	82*
Cap type	429	89
Gang type	429	87
Non-spill type	429	84
Plug type	429	89
Reactive, absorbable type	429	86
Separate inlet and exhaust	429	83
Stopper	429	89
Weight actuated valve type	429	83
Electric cables conduits boxes	174	16.1
Electric insulators	174	187
Equipment	D23	370*
Fans	416	
Fire escapes	182	47
Hats	2	171.3
Sweats	2	181.6
Heating and cooling systems	165	59
Heating systems	237	46*
Hoods and offtakes	98	115.1*
Light projectors	362	294
Locomotive cab	98	3
Dust guards	98	28
Louvers	98	121.1*
Mask	128	205.25*
Mine	98	50
Oven doors	126	198
Pavement vault cover	404	25*
Photographic dark cabinet	354	309
Pressure maintenance	98	1.5
Provision safes	98	51
Railway cars	98	4*
Railway tunnels and subways	98	49
Registers	98	101*
Roof eaves	98	DIG. 6
Ships	114	211*
Shoes, making	12	142V
Solar power	98	900*
Storage	98	52*
Stove attachments	126	80
Fluid fuel stoves	126	84
Platforms	126	279
Stovepipe combined	126	312
Damper combined	126	293
Thimble combined	126	316
Temperature regulated	236	49.1*
Tents having	135	93
Umbrella cover	135	35V
Water closet		
Siphon bowl	4	351*
Urinal	4	306*
Valved bowl	4	348*
Washout bowl	4	348*
Window	98	88.1*
Vents		
Automobile no-draft	49	390*
Ball point pen	401	217
Building with	52	198*
Fountain pen	401	242
Molding devices		
Chills	164	372
Metal founding	164	410
Metal founding core	164	234
Metal injection die having	164	305
Static molds	249	117*
Ordnance	89	30
Pump priming and venting	417	435
Rotary	415	11
Receptacle		
Batteries	429	82*
Bottle closure	215	307*
Check valves for radiator	137	511*
Closures	220	367*
Cutter for vent and dispensing openings	222	85*
Dispenser	222	478*
Dispenser handle with	222	468
Dispenser movable trap chamber with	222	332
Dispenser trap chamber with	222	442
Dispenser with fluid trap seal for	222	188
Dispenser with follower and	222	387
Float closure for dispenser vent	222	69
Fluid operated lubricator	184	59
Fluid pressure brake systems	303	70
Tube bottle closure	215	307*
Water heating	126	389
Wick burner fuel supply	431	321
Rubber or heavy plastic mixer	366	75
Sifting bins with	209	378
Valve		
Closet etc ventilation	4	216
Independent multiple air	137	583*
Multiway rotary plug	137	625.22*
Serial dependent drainage	137	512*
Direct response	137	512*
Selective motion actuation	137	636*
Separate actuators	137	637*
Sequential	137	628*
Venting	425	812*
Wall with	52	302*
Venturi		
Carburetor	261	DIG. 12
Flow meter	73	861.63*
Restricter type	138	44
Scrubbers	261	DIG. 54
Variable venturi	261	DIG. 56
Veratramine	546	195
Veratridine	546	34
Veratrol	568	648
Veral T M (polyacrylonitrile Vinylidine Chloride)	526	342
Verifier		
Card or tape punch	234	34

	Class	Subclass
Verifying Statistical Cards	73	156
Vermicelli	426	557
Vermiculite	423	
Compositions including	106	122
Alkali metal silicate	106	605
Ceramic	501	141*
Pigment	106	415*
Settable cement	106	672*
Expanding	252	378R
Vermilion	423	511
Vermin Destroying	43	124*
Antivermin treatment of animals	119	156*
Traps	43	58*
Currycomb combined	119	87
Design	D22	119*
Vernier (See Machine with which Combined)	33	1D
Ruler type	33	494
Tabular calculator type	235	85R*
Veronal T M	544	307
Vessel (See Crucible; Tank; Tub; Receptacles; Vats)		
Drinking	215	
Design	D 7	509*
Metallic	220	
Heaters		
Electric	219	438*
Water	126	373*
Receptacles		
Dry closets	4	479*
Measuring	73	426*
Metallic and miscellaneous	220	
Portable fire extinguishers	169	30*
Suspended household filter	210	473*
Testing sealed	73	52
Water heating	126	373*
Ships	114	
Insubmergible	114	68*
Raising and docking	114	44*
Submarine	114	321
Staved wooden	217	72*
Insulated	217	131
Vestibule		
Railway train connection	105	8.1*
Stock cars	119	14
Vestment or Ceremonial Robe	D 2	79*
Vests	2	102*
Coat combined with	2	95
Design	D 2	184
Design	D 2	190
Design vestees	D 2	183
Veterinary		
Animal care and handling	D30	
Animal dips and sprays	424	
Animal poisons	424	
Dental instrument	433	1
Diagnostic		
Gag	128	14
Pivoted specula	128	19
Equipment	D24	
Medicines	424	
Obstetric forceps	606	205*
Oral dosing device	604	77
Vetograph	350	396
Vibrating Cup	277	97*
Vibrating Motor	310	15*
Piezoelectric	310	311*
Systems	318	114
Vibration (See Jarring; Vibrator)		
Ammunition igniters		
Marine mine	102	416
Mine	102	424
Audio intensifiers	381	161
Dampers		
Centrifugal extractor with	68	23.1*
Centrifugal extractor with	210	144
Centrifugal extractor with	210	363
Electric brake	310	93
Electricity conductors etc overhead	174	42
Flywheels with	74	574
Hammer	173	139
Heat exchanger element	165	69
Inductor	336	100
Interia	188	378*
Internal-resistance motion retarding	188	266*
Machinery bases	248	560*
Machinery brackets	248	560*
Machinery supports	248	638
Machinery suspension	248	610*
Plastic deformation	188	371*
Resilient deformation	188	268
Separator, imperforate bowl centrifugal	494	82
Shaft structure	464	180
Dispenser feeding		
Articles	221	200*
Discharge assistant	222	196*
Grain hulling apparatus	99	609*
Nail etc making	10	172*
Planter with chute	111	76
Planter with hopper	111	75
Supply container	222	161
Earth boring by	175	56
Electrical applications to body	128	424
Electrical liquid separation with	204	307
Grain separator straw carriers	460	96
Gravity feed lubricator cutoff	184	69
Heat exchanger surface	165	84
Kinesitherapy	128	32*
Vibrant membrane	128	64
Liquid purification		
As treatment of liquid	210	748
Filter	210	388*
Flocculation or precipitation	210	738
For cleaning filter	210	785
Membrane process	210	637
Measuring and testing	73	507*
Recording combined	346	7
Metal treatment	148	12.9
During casting	164	71.1
Vibrating X-art	72	710
Continuous casting	164	478
Welding apparatus	228	1.1
Mining by	299	14
Motor or generator	310	51
Pipe joint	285	48*
Rotating shaft for	74	574
Supports, nonresilient	248	636
Supports, resilient	248	562*
Tool drive vibration isolator	173	162.1*
Transformer	336	100
Misc. chemical manufacture	156	DIG. 91
Musical instrument	84	
Rigid	84	402*
Tuned sound wave generator or resonator	84	723
Razor	30	44*
Road and earth compacting	404	113*
Road finishing by	404	113*
Signs	40	613*
Textile weaving	139	
Toy	446	3
Air actuated reed	446	207*
Typewriter ribbon mechanism	400	215*
Vegetable etc cutting processes	426	518*
Warp stopping	28	188*
Well processes	166	249
Vibrato	381	62
Vibrator (See Vibration)		
Agitating	366	127
Bodine vibrator	366	600*
Electric	310	15*
Medical	128	32*
Motor systems	318	119*
Motor systems	318	114
Feed conveyer, vibratory type	209	920*
Geophysical	367	189
Mechanical sensor	73	662*
Metal casting device having	164	260*
Power supply	307	150
Inverter system	363	110
Sifting	209	381
Sonar or submarine type	367	141*
Sound mold compactor	164	203*
Ultrasonic measuring & testing	73	570*
Victrola T M (See Phonograph)		
Video Disc Player	369	
Capacitive	369	126
Disc structure	369	276
Disc player mechanism	369	176*
Changer	369	178*
Magnetic	360	33.1
Mechanical	369	127*
Optical	369	100*
Initialization startup	369	44.27
Optical servo system	369	44.11
Optical track structure	369	275.1
Pause control	358	908*
Picture signal processing	358	342*
Color	358	322
Stored modulated carrier signal	369	61
Video Display Screen Support	248	917
Video Pentode	313	300
Video Tape Recorder	360	33.1*
Commercial killers	358	908*
Track skippers	358	907*
View Finder		
Camera	354	219*
Viewing Devices	40	361*
Stereoscopic	350	133*
Vignetting		
Photographic	354	296
Contact printing	355	125
Projection printing	355	40*
Vignoles	238	125*
Vinaigrette	D11	184
Vinblastine	540	478
In drug	514	283
Vincamine	546	51
In drug	514	283
Vincristine	540	478
Vinegar	426	650
Apparatus	99	323.12
Vinyl Compounds		
Cyanide	558	462
Esters from acetylene	560	242
Ether	568	687*
Solid polymers	526	59*
Vinylidene Compounds	526	343
Processes of molding articles of vinylidene chloride	264	DIG. 79
Solid polymers	526	59*
Viola (See Violin)		
Violin	84	274*
Bows	84	282
Bridges	84	309
Mutes	84	310*
Cases	206	14
Chin rests	84	279
Design	D17	17*
Pianos with bowed strings	84	256*
Strings and fastenings	84	297R*
Supports and shoulder rests	84	280
Tailpieces	84	302
Violin Cello (See Violin)		
Viquidil, in Drug	514	314
Virus Culture	435	235
Viscose	536	60*
Compositions	106	164*
Alkali metal silicate	106	618*
Casein	106	141
Gelatine or glue	106	128
Ink	106	26
Magnesium oxy chloride	106	687
Plaster of paris	106	780
Polishes	106	5
Portland cement	106	729*
Prolamine	106	151
Protein miscellaneous	106	158
Filament making processes	264	188*
Ripening	536	61*
Viscosity		
Control	137	92
Dividing lamina	52	408*
Measuring	73	54*
Vises	269	
Anvil	72	457*
Anvil attached	72	457*
Daguerreotypy	354	2
Design	D 8	74
Drilling machine	408	72R*
Fruit jar	81	3.31*
Milling machine	269	
Saw clamping	76	79.5
Tool attached	29	560.1
Type casting	199	50
Vision (See Eye; Optics)		
Testing & correction	351	
Visor, Sun	350	
With article carrier	224	312
Visors for Caps	2	195
Hat with	D 2	244*
Visual Display (See Display)		
Communication	340	700*
Vitamin		
A	568	824
B1	544	327*
B2 or riboflavin	544	251
B6	546	301
C	549	315
Composition	424	

	Class	Subclass
D	552	653
Design	D28	1+
E	549	408
Electrostatic treatment	204	166
Foods containing	426	72+
G (See vitamin b2)		
K	552	299
Preparation by wave energy	204	157.67
Vitreous (See Glass)		
Vitrification or Devitrification		
Color processes photo	430	198
Glass composition	501	2+
Glass preform	65	33
Voice		
Artificial electric	381	
Doll	446	297+
Air operated	446	188+
Operated circuits relay	361	160+
Reflector for therapy	D24	35
Void Former	52	577
Within module	52	576
Volleyball	273	411
Voltage		
Differentiator electric	333	19
Electronic tube type	328	127+
Plural different voltages	307	15
Integrator electric	333	19
Electronic tube type	328	127+
Magnitude & phase control systems	323	
Regulation electronic	323	
Regulator (See regulator; electricity)		
Stabilization (see regulator)		
Voltage Magnitude Control		
Audio signal	381	104+
Facsimile	358	400+
Pulse or digital communications	375	98
Radio	455	232+
Telecommunications	455	232+
Television	358	174+
Color	358	27
Voltmeter (See Galvanometer)		
Amplifier tube for	313	293+
Volume Control Automatic		
Amplifier type with		
Bias control	330	129+
Impedance control	330	144+
Thermal impedance control	330	143
Public address type	381	
Radio receiver type	455	234+
Input coupling impedance adjustment	330	185+
Interstage coupling impedance adjustment	330	157+
Output coupling impedance adjustment	330	192+
Volume Control Manual		
Amplifier type by		
Bias adjustment	330	129
Cathode self bias impedance adjustment	330	142
Volume Meters		
Calibration of	73	3
Dispenser combined	222	71+
Check controlled	194	
Preset cutoff	222	14+
Fluid	73	861+
Liquid level	73	290R+
Measurers	33	1V
Measuring vessel	73	426+
Proportional flow control	137	87+
Receptacle filling		
Stationary measure	141	
Traveling measure	141	135+
Timing fluid flow	137	552.7
Volumetric content measuring	73	149
Vortex Tube for Cooling	62	5
Vortical Separator	209	
Gas separation	55	447+
Liquid contact combined	55	235+
Voting		
Booths	52	36
Flexible wall	52	63
Computer controlled, monitored	364	409
Machines	235	51+
Teaching	434	306
Vulcanizable Gums		
Apparatus for	425	28.1+
Apparatus for	425	113
Apparatus for	425	381.2
Dyeing of	8	
Electrophoresis involving	204	180.3+
Synthetic resin (See synthetic resin or natural rubber)		
Vulcanizing		
Machinery design	D15	199
Molding apparatus for composite articles	425	500+
Molding devices	425	363+
Molding devices	425	383+
Presses	425	335+
Processes		
Molding combined	264	
Synthetic resin or natural rubber	525	50+
Wabble Mounted Circular Saw	144	238
Wabbler Plate	74	60
Gearing	475	163+
Wadding or Filling for Containers	493	967+
Wads	102	532
Columns	102	532
With cartridge	102	448+
Waffle Irons	99	372+
Batter feeding combined	99	373
Design	D 7	359
Waffle Type Ceiling	52	337
Wagering, Computer Controlled	364	412
Waging War	89	1.11
Wagons	280	
Bodies	296	
Design	D12	17+
Dumping	298	
Ice	62	239+
Lunch		
Heater	126	268
Ovens	126	276
Bakers	126	276
Toy	D21	134+
Wainscoting	52	506+
Waistbands		
Skirts	2	220+
Closures	2	219
Special sewing machine	112	121.27
Trousers	2	236+
Union type skirted	2	76
Waists		
Body garments	2	104+
Wakers (See Alarms)		
Walkers		
Baby	272	70+
Design	D12	130
Water	441	76+
Walkie Talkie Radio	455	73+
Separate transmitter and receiver	455	39+
Walking		
Aids	135	68+
Seats	297	5+
Cane or stick	135	65+
Irons	128	83.5
Mechanism for dolls	446	377+
Motor driven	446	355
Walkways	404	17+
Wall		
Absorbent filtering gas	34	81
Aperture thermometer support	374	208
Board cutting	83	
Bracket attached to wall anchor	248	231.91
Building (See facer construction)	52	
Article support	52	27
Coated	52	515+
Heat exchanging	165	47+
Hollow block	52	503+
Hollow block static mold	249	144+
Hollow ventilating	98	31
Lateral block courses	52	561+
Plasterboard	52	344+
Static mold for making	249	33
Surfacing abrading machine	51	180
Ventilating register	98	106+
Cabinet	312	245
In wall or panel recess	312	242
Chute	193	33+
Cleaning machines	15	49.1+
Decoration or plaque	D11	132+
Electric furnace		
Resistance	373	109+
Resistance in	373	
Water cooled		
Arc	373	75
Induction	373	138
Resistance	373	113
Exterior elevator	187	6+
Freight car vacuum	105	357
Heating and cooling panel	165	49
Insulator through wall	174	151+
Ironing board attached laterally of support	108	152
Folding	108	134+
Ladder with platforms	182	83+
Mirror plural	350	612+
Mounted conduits	174	48+
Outlets	174	48+
Wiring	174	50+
Panels, continuous molding of	264	46.4+
Plug electrical	439	638+
Protector for furniture	248	346.1
Racks	211	
Receptacle		
Bottle or jar spaced	215	12.1+
Electrical	174	53+
Insulated, wooden	217	131
Metallic	220	660+
Metallic spaced	220	415+
Metallic transparent	220	662+
Outlet wall mounted	220	3.3+
Paper	229	4.5
Pitcher spaced	222	131
Purse	150	127+
Trunk	190	23
Wooden box	217	17
Insulated	217	128+
Retaining	405	284+
Cribbing	405	273
Sheet piling	405	274+
Wave or flow dissapating	405	30+
Retort	202	223
Safe and bank	109	78+
Table attached laterally of support	108	152
Folding	108	134+
Water for liquid heater	122	106
Bridge	122	192
Wallets	150	132+
Wallpaper	428	346+
Cleaning device	15	219
Design	D 5	
Steamer	126	271.1
Walnuts		
Novelties, jewelry motif	D11	117
Plants	PLT	32
Wankel Engine	418	61.2
Ward		
Distributing	276	26
Setting combined	276	6
Wardrobe	312	
Trunk type	190	13R+
Warfare		
Electronic	342	13
Gases	424	
Teaching	434	11
Warmers		
Bed mattress	5	421+
Bedstead	5	284
Body	126	204+
Heat exchanger	165	46
Heated shoe	36	2.6
Bottle	99	359
Food	126	
Household appliances	D 7	362+
Foot warming radiators	237	77
Receptacles	220	3.1
Solar	D 7	324
Surgical devices	128	362+
Bandaging	128	82.1
Instruments	606	1+
Kinesitherapy	128	24.1+
Medicators	604	113+
Orthopedic	128	68.1
Receptors	604	358+
Warnings (See Indicators; Signal)		
Warning or flashing signs	D10	114+
Warp		
Feeding	139	97
Frames	139	34
Irregular feed	139	24+
Knitting		
Circular independent needles	66	10
Circular united needles	66	81
Fabrics	66	192
Fabrics having unknit materials	66	195
Straight united needles	66	203+
Straight united needles unknit material incorporating	66	84R+
Knotting machines	28	209+
Panel straightener	52	291
Pile weaving	139	37+

	Class	Subclass
Preparation	28	172+
Stop control	139	349+
Winding	242	26.2+
Warships	114	1+
Wash Basin	D23	284+
Sink, beauty parlor	D28	20
Wash Tub (See Receptacles)	68	232+
Attachments	68	237
Wringer support	68	238
With scrub surfaces	68	233+
Washboards	68	223+
Design	D32	67
Supports	248	27.5
Washboiler		
Attachments	68	237
Wringer support	68	238
With thermal flow means	68	191+
Washers Hardware	411	531+
Bolt or nut to substructure lock	411	136+
Apertured plate type	411	155+
Closed loop, thickness varies	411	160+
Plural washers	411	137
One yieldable	411	150
Split ring type	411	152+
Washer in counterbore	411	148
Bolt to nut lock		
Deformable washer	411	313+
Including thread lock	411	260+
Pawl carrying washer	411	330+
Design	D 8	399
Design, fluid handling	D23	269
Hollow rivet setting	227	51+
Making	10	72R+
Punching	83	
Tag attaching	493	375+
Thrust bearing	384	420+
Washing Compositions		
Detergents	252	89.1+
Soap containing	252	108+
Washing Devices (See Scrubbing)		
Clay	209	
Clothes	68	
Coal ore and sand	209	
Combined washer-drier	D32	5
Dishwasher	134	
Earth bore device combined	175	208
Filter	210	409+
Fish	17	65
Fluid treatment	134	
Drying combined	68	19+
Textile	68	
Textile processes	8	137+
Grain	134	
Head	4	515+
Implement with water supply	401	
Machine systems	60	908*
Machinery	D32	1+
Mineral oil	196	46
Photographic	354	297+
Scrubbing combined	15	
Smoke tobacco	131	173
Starch	127	25
Textiles	68	
Vehicle		
Overhead supply and spray	239	209
Stationary or track type	166	157
Well screen with washing point or shoe	166	157+
Washstands	312	228
Cabinet with basin or tub	312	228
Design	D23	284+
Plumbing with	4	625+
With drain	312	229
Waste (See Reclaiming; Recovery)		
Acid from	562	513
Cutting waste product	83	923*
Disposal in soil	405	128+
Electrolytic treatment	204	149+
Fertilizer from	71	25+
Heat utilizing steam generators	122	7R
Lignins from sulfite liquor	530	500+
Matter utilizing in manufacture of fats	260	412+
Nuclear material	252	636+
Phenols from	568	749+
Recovering from cards	19	107
Sorting municipal solid waste	209	930*
Sulfite liquor (See sulfite liquor)		
Tall oil	530	205+
Watch	368	62+
Assembling		
Of crystal	29	807
Process	29	177+
Staking	29	231+
Attachments	63	21+
Band or strap	224	164+
Bezel with crystal	368	294+
Bracelet	63	3+
Carrier	224	180
Convertible to different device	224	152
Casing for watch movements	206	18
Chains	59	80+
Watch and chain attachments	63	21+
Cleaning	15	
Crystal	D10	132
Design	D10	30+
Electric	D10	30+
Fob or chain	D11	79+
Gauges	33	659
Holder for timepiece not carried on wrist	224	903*
Illuminated	362	23
Movement construction	368	76
Strap	D11	3+
Strap in combination with watch	D10	32
Structure	368	88+
Support	248	114+
Timing testers	73	6
Tools	81	6+
Compound	7	101+
Wrenches	81	122+
Wheel gauges	33	203.1
Watchmens Signal System	340	287+
Time clock recorders	346	
Water		
Additive or substitute	4	DIG. 1
Aeration	261	
Flotation, processes	210	703+
Processes	210	749+
Separation apparatus	210	198.1+
Waste water processes	210	601+
Backs		
Cookstove	126	34+
Cookstove liquid or gaseous fuel	126	53+
Fireplace	126	513+
Bag		
Thermal material	383	901*
Thermal material metallic	220	3.1
Thermal medicator	604	113+
Thermal surgical	128	403
Bath heating apparatus	126	344+
Bed	5	451+
Blowdown of boilers	122	381+
Boiler purifying	210	311+
Bottle	425	813*
Can	D23	212
Carbonated making	261	
Catalystic recombiners	422	177+
Closets	4	300+
Closet design	D23	295+
Pipe joint	285	56
Conditioner or softener	D23	207
Control, channel preservation	405	52+
Control, hydraulic engineering	405	52+
By valve in closed conduit	137	219+
Cooler, machine design	D 7	304
Craft		
Aircraft landing gear	244	105
Aircraft water propulsion steering	244	50
Amphibian	244	101
Brake	244	112
Buoys	441	
Marine propulsion	440	
Ships	114	
Toy	446	153+
Depth measuring		
By radiant energy	342	123
Gage	73	290R+
Sounding line	33	713+
Distillation	203	10+
Distilling	203	10+
Distribution (See distributor)		
Design	D23	200
Systems	137	561R+
Electrolytic production	204	101
Faucet attachment	239	428.5
Filter	D23	209+
Gage posts	33	721+
Gas manufacture	48	204+
Cupola	48	78+
Retort	48	108+
Heaters	126	344
Design, heater or boiler	D23	318+
Electric	392	311+
Liquid heaters and vaporizers	122	
Heating systems for buildings	237	56
Compounds	423	580
Electrolytic synthesis	204	101
Engaging aperture or notch of	237	63
Hydraulic engineering (See hydraulic)	405	
Marks in paper making	162	110
Observing	356	23+
Measuring depth of	73	290R+
Meter	73	861+
Nuclear coolant or moderator	376	174
Nuclear coolant or moderator	376	221
Nuclear coolant or moderator	376	350
Pipe		
Carrying RF telephone signal	379	90
Pistol	222	79
Public utility meter	D10	99+
Purification (See purifiers)	210	
Chemical compositions for	252	186.1+
Distilling for	203	10+
Roundabout	272	32
Skimmer and walker	441	65
Softeners	252	175+
Sprinklers	239	
Embedded	239	201+
Pipes	239	550+
Sprinkling cans	239	375+
Substitute or additive	4	DIG. 1
Towers	169	25
Tube boilers	122	235.11+
Underground detectors		
Acoustic type	181	
Borehole and drilling study	73	151+
Electric	324	323+
Water culture	47	59+
Wheels		
Current operated	416	
Water Glass		
Compositions		
Bleach	252	99
Detergent	252	135
Molding or coating	106	600+
Soap	252	109
Sorbent	502	407
Compounds	423	326
Waterbed	5	451+
Watering Devices for Animals	119	72+
Feeding and	119	51.5
Design	D30	121+
Stock car feeding and	119	10
Waterproof		
Building structure	52	
Coating	52	515+
Drain for window	52	209
Drain or vent	52	302+
Exterior flashing	52	58+
Guttering	52	11+
Liquid deflector	52	97
Resilient seal	52	393+
Collars	2	135
Electroplating nonconducting base	204	31
Fabrics	428	244+
Overcoats	2	87
Processes of waterproofing	264	DIG. 8
Rubber footwear	36	4
Overshoes	36	7.3
Seatcover	297	184
Special receptacle or package	206	811*
Wattmeter		
Dynamometer	324	144+
Induction disk	324	137+
Radiant energy	250	472.1
Photocell type	324	96
Radio type	455	115
Wave		
Acoustic systems & devices	367	
Analysis	324	77R
Computer controlled, monitored	364	413.5+
Buoys	441	1+
Calming oil distributors	114	232+
Buoys	441	34
Energy & wave transmission (See acoustics; electricity; heat; prospecting; radiant energy; radio; sound; tide)	455	
Along wave guide	333	239+
Block signal systems hertzian waves	246	30

	Class	Subclass
Compressional wave signaling	367	
Electric musical instrument	84	723
Electric wave transmission	333	
Explosive mine firing	102	427
Fuses, primers, and igniting devices	102	211
Guides electrical	333	
Interference type electric musical instrument	84	600
Marine mine firing	102	416+
Preserving disinfecting and sterilizing processes	422	20+
Microwave	422	21
Radio	455	
Pulse or digital	375	37+
Shaping	328	34+
Sound and supersonic generators	116	137A
Surgical or medical applications (See radiant energy)		
Textile treatment	8	DIG. 12
Tuners	334	
Use in nuclear plasma reactions	376	100
Used in reaction to prepare inorganic or organic material	204	157.15+
Used in reaction to prepare or treat synthetic resin or natural rubber	522	1+
Explosive devices	102	366
Fluid breakwaters	405	22
Form analysis		
Electrical	324	77R
Generator		
Earth boring combined	175	56
Water	405	79
Guide electric	333	239+
Antenna	343	772+
Conduit only	138	118+
In cathode ray tube	315	4+
In electronic tube	315	39
Making	29	600
Standing wave indicator	324	633+
With frequency characteristic	333	239+
With insulation	138	137+
Meters	250	250
Motors	60	495+
Resonator	333	219+
In cathode ray tube	315	4+
In electronic tube	315	32+
Shaping		
Electronic tube type system	328	34+
Transmission, wireless	455	
Pulse or digital	375	37+
Waveguides		
Chemical analysis apparatus	422	82.11
Railway rail joints	238	151+
Railway rails	238	122+
Railway wheels	295	21+
Railway wheels integral hollow	295	28
Textile fiber forming	19	296+
Feeding	226	
Stepping-motor drive for web	400	902+
Machine part		
Calendars double reel and	40	117
Calendars single reel and	40	116
Changeable exhibitors	40	446+
Drier drum external	34	123
Drier plural drums external	34	116+
Drier rotary drum external	34	111
Drier spacers	34	94
Printing	101	
Sheet feeding or delivery	271	
Supplied machines		
Automatic drier with control by	34	49
Box making, folding	493	162+
Drier for	34	148+
Drier spacer web	34	94
Drying processes diverse types	34	18
Drying processes radiant etc	34	41
Drying processes with vacuum	34	16
Drying processes with vapor etc	34	23+
Drying processes with web spacer	34	6
Envelope making	493	186+
Fabric coating and uniting	156	
Fabric reeling web fasteners	242	74
Fabric reeling web roll supply	242	58
Folding or associating	270	
Printing	101	
Severing	83	
Textile fluid treating	68	177+
Typewriter paper feed	400	611+
Tacky web cutting	83	922*
Winding & reeling	242	
Waving Hair		
Methods	132	210
Wax		
Centrifugal honey extractor filter	210	361+
Coating with	427	
Compositions		
Abrasive	51	305
Biocidal	424	
Coating or plastic	106	
Detergent	252	89.1+
Ester type	260	398+
Inks	106	31
Mold	106	38.8
Mold coating	106	38.25
Polishes	106	10
Synthetic resin or natural rubber ctg (See synthetic resin or natural rubber)		
Dyeing	8	521
Electromagnetic wave treatment	204	157.15+
Electrostatic field or electrical discharge treatment	204	167
Ester type	260	398+
Fermentative treatment	435	271
Matches	44	507+
Melting apparatus for honey separation	210	175+
Modeling dental	433	213
Paper	428	486
Paraffin	208	20+
Waxing		
Bobbin winding combined	242	18R+
Coating pads and forms	118	264+
Leather sewing and	112	42
Shoe making	12	79.5
Waxy hydrocarbon polymer production	585	946*
Ways		
Conveyor	193	
Marine	405	1
Railway		
Freight cars for tubular	105	365
Suspended	104	123
Tubular	104	138.1+
Weaning Devices	119	134
Weapons (See Ammunition; Firearms; Ordnance)		
Wear		
Building surface	52	177+
Compensating brake beam	188	214+
Compensating radial bearings	384	247+
Compensating wheel bearings	384	261+
Compensators for clutches	192	110R
Distributor for typewriter platen	400	554+
Earth boring bit indicating	175	39
Element removable from pipe fitting	285	16+
Indicator for pipe	138	36
Pavement	404	17+
Plates for railway truck	105	225
Plates hub thrust	384	247+
Resistant surface	428	908.8
Strips vehicle body	296	41
Surface rod joint packing	277	
Take up for wheel brake	188	79.51+
Wearing in	29	89.5
Weather (See Humidity; Moisture)		
Barometers	73	384+
Computer controlled, monitored	364	420
Control of	239	2.1
Operated curtain shade screen	160	5
Proofing buildings (See water proof)		
Radar	342	26
Rain actuated window closers	49	21+
Strips	49	475+
Land vehicle windshield	296	93
Vanes	73	188+
Design	D10	59
Weatherstrip, metal	428	595
Weavers Implements and Irons	139	380+
Design	D 8	
Dies for forging	72	462+
Slat and wire fabric	140	35
Portable machines	140	48
Warp manipulation	139	35
Web (See Sheet, Fabric)		
Article part		
Coating or forming by electrophoresis etc	204	180.4
Electroforming	204	12+
Electrolytic coating	204	27+
Formed web assembling	19	161.1+
Paper bag making	493	186+
Paper type forming apparatus	162	289+
Paper type forming processes	162	202+
Wedge		
Bolt to nut lock		
Thread gripper with tapered section	411	253
Thread lock with tapered surface	411	265+
Coupling and securing		
Bale tie	24	25
Buckle	24	194+
Buckle design	D11	200+
Clasp	24	526
Also pivots	24	491
Clasp design	D11	87
Closure fasteners	292	342+
Cord holder	24	136R+
Harness clamp	24	171
Rail anchor	238	324
Rail clamp	238	353+
Rod joint sleeve	403	274+
Tool socket fastening	403	367+
Wire fence clamp	256	56
Design	D 8	47
Printers quoins	254	42
Pushing and pulling	254	104
Rock splitting in situ	299	20+
Wood splitting	144	192+
Weed Killers	71	65+
Weeders	30	
Electric	47	1.3
Flame or burner type	126	271.1+
Plant cultivators	47	1.44
Fluid introduction into soil	111	118+
Grappling fork or shovel	294	50.6+
Harrows	172	705+
Process of introducing fluid into soil	47	58
Root puller	254	132
Subsurface blade	172	720
Tuners	172	514+
Weft		
Inactive		
Restrainers for	139	170.3+
Measuring and storing	139	452+
Pile fabrics	139	392+
Selecting	139	453+
Stop motions	139	370.1+
Thread cutting devices	139	302+
Thread replenishing	139	224R+
Thread tensioning devices	139	194
Winding	242	26.4+
Weighers (See Scales)		
Automatic supply control	177	60+
Cigar and cigarette making	131	280
Coin or check controlled	194	
Conveyer pneumatic combined	406	10+
Conveyer power driven combined	198	502.1+
Design	D10	87+
Dispensing	222	77
Gas separation combined	55	270
Illuminated	177	177+
Liquid level gauge	73	296
Material and handling	414	21
Packaging machine combined	141	129+
Receptacle filling combined	177	59
Recording	177	2+
Printing or perforating	346	9+
Scales	177	
With diverse exhibitors	40	458
Sifting	209	239
Sorting	209	645
Condition responsive controls	209	592+
Specific gravity	73	433+
Traversing hoist	212	158
Weighing Machines	D10	87+
Weight (See Notes to Def of)	16	DIG. 8
Aircraft stabilizing	244	93+
Animal restraining	119	107
Bed counterbalance	5	166.1+
Bottle valve	215	22+
Brake	188	174+
Cigar making	131	347
Closure fastener	292	344
Clutch	192	89W+
Coin tester	194	339+
Computer controlled, monitored	364	466
Controlled operated and regulated Outlet valve	4	386+
Outlet valve latched open	4	386+

	Class	Subclass
Water closet tank	4	300+
Counterbalance		
Chute	193	19
Pitman	74	590+
Rotor combined	74	573R
Support	248	364
Support suspended	248	325
Wheel	301	5R
Dispenser control		
By discharging receiver	222	56
By second material	222	57
By supply container	222	58
Door closure	16	81
Drape	160	349.1
Dress	2	273
Drilling machine	408	235
Electric trolley retriever	191	94
Elevator	187	15
Exercising	272	117+
Flatiron accessory	38	98
Frictional gearing	74	209
Hitching	280	187
Hoop driver	147	12
Horseshoe	168	25
Invalid bed	5	78
Land roller	404	130
Lubricator	184	46
Marine propulsion	440	10
Measuring	177	
Design	D10	83+
Motor	185	27+
Composite	185	4+
Motor vehicle load, responsive to	180	290
Paper	16	1R
Design	D19	96+
Phonograph tone arm counterbalancing	369	254
Pickup scale	177	237
Plumb bob	33	392+
Pump	417	328+
Pump tide motor	417	330+
Reducer aircraft	244	5
Sash	16	216+
Weight and wheel	16	219
Sash cord and weight fastener	16	209
Ship ballast	114	124
Sound box	369	168
Surgical vibrator	128	42
Switch	200	85R+
Latch trip	200	41
Toy eccentric	446	207
Traction cable gripper	104	208
Unbalanced		
Rotary gyratory	74	87
Rotary reciprocating movement	74	61
Sifter	209	167
Sifter gyratory	209	366.5
Surgical vibrator	128	34+
Valve		
Pivoted	137	527.8
Reciprocating	137	532+
Weighers (See scales)	177	
Weighted base	248	910*
Wheel balancing	301	5R
Woodworking presser roll	144	248
Weighting Textiles	8	443
Weir	405	87+
Chemical feeder control	137	101.27
Fish traps	43	101
Flow meter	73	215+
Overflow discharge	239	193+
Welders Helmet	2	8
Combined with welding	219	147
Design	D29	7+
Shields	2	8
With air supply	128	201.22+
Welding		
Adhesively seaming		
Apparatus	156	
Processes	156	
Autogenous	228	196+
Backup rings	228	50
Pipe integratable	285	21
Chain link welding	59	31+
Cold processes of	228	115+
Compositions	148	23+
Critical metal or filler	228	263.11+
Diffusion	228	193+
Electric welding	219	50+
Arc	219	121.11
Inductive	219	6.5+
Methods	219	148
Tongs or clamps	219	158+
Wire joining by	140	112
Electrode with metal particle	428	553
Electrolytic	204	
Flux applying	228	214+
Friction, apparatus for	228	2
Friction treatment	156	73.5+
Gas welding		
Apparatus	228	
Methods	228	101+
Torches	239	398+
Metal heat treating and welding	148	127
Metal working and welding	228	141.1+
Digest	29	DIG. 48
Sheet metal containers	413	
Non-metal or non-metal with metal film	228	263.12
Pressure welding		
Apparatus	228	
Processes of cold welding	228	115+
Processes of making tubes by drawing through dies	228	144+
Tubes by drawing through die	228	16
Railway track welders	104	15
Robot	901	42*
Rod	219	145.1+
Alloy composition	420	
Fluxing composition	148	23+
Metal particle containing	428	553+
Solder	228	56.3
Scale removing	29	81.1+
Sintering	419	
Sonic or ultrasonic, non- metallic	156	580.1
Apparatus	156	580.1+
Process	156	73.1+
Spot welding	219	86.1+
Tongs or clamps	269	
Ultrasonic	228	1.1
Non-metallic	156	73.1
Apparatus	156	580.1+
Non-metallic processes	156	73.1+
Process	228	110+
Weld strength testing		
Bending	73	850
Shear	73	842
Tensile	73	827
Welded metal stock	428	544+
Wells	166	
Battery receptacle	429	47
Blowout preventer valve	251	1.1+
Borehole study	73	151+
Electrical	324	323+
Borehole telemetering in	340	853+
Cable seal	277	
Centering guide	175	325
Cleaning	166	170+
Processes	166	311+
Concentric conduit joint	285	138+
Coupled rod seal	277	5+
Coupling valve	137	515+
Drilling platform	405	195+
Floatable	405	203+
Earth boring compositions	252	8.51
Earth boring for	175	
Fire extinguishing	169	69+
Gas lift valve for	137	155
Gas separating	55	
Grapples	294	86.1+
Grappling methods	166	301
Heater electric	392	301+
Hoist bucket bailer	294	68.22+
Logging	367	25
Computer controlled, monitored	364	422
Particular apparatus	367	911*
Particular transducer	367	912*
Packer sealing portion	277	
Pump		
Aerated column	417	108+
Expansible chamber rotary	418	
Jet	417	151+
Motor combined	417	321+
Pneumatic displacement	417	118+
Reciprocating piston	417	437+
Reciprocating valved piston	417	545+
Rotary centrifugal	415	206
Rotary screw	415	71+
Well structure combined	166	105+
Rotatable packing rod seal	277	31
Screen making	29	163.6+
Solid material recovered	299	
Torpedoes	102	301+
Treating compositions	252	8.551
Tubing cutter	166	55
Tunnel fluid recovery	299	2
Valves and closures	166	316+
Wiper	15	210R+
Welting		
Device for knitting machines	66	41
Welts		
Glove	2	165
Shoe	36	78
Handling and sewing	112	46
Machines	12	67R+
Sewing guides	112	52
Slitting beveling and sewing	112	44
Sole attaching	36	17R
Support for in leveling	12	33
Vehicle body joint	280	153.5
Werner Complex Formation to Recover Hydrocarbon	585	850
Wet Suit	2	2.1 R
Wetting (See Moistening)		
Compositions	252	351+
Textile spinning with	57	295
Whale Bone	2	255+
Whale Oil	260	398+
Wharves	405	284+
Wheel (See Pulley; Wheeled)		
Aircraft		
Landing gear	244	103R+
Paddle wheel propelled	244	70
Paddle wheel sustained	244	19+
Plane & paddle wheel sustained	244	9
Heavier than air	244	9
Lighter than air	244	27
Prerotation	244	103S
Aligning tools	29	273
Ambulant spraying device	239	155+
Balance		
Testing	73	66
Weight removing tools	254	
Weights	301	5R
Base, special, motor vehicle	180	21+
Brake	188	218R
Caster	16	45+
Clutch		
Hand	192	95
Velocipede free	192	64
Covers	301	37R
Drive railway	105	96+
Elevator		
Street sweeping machine	15	86
Excavating plows		
Conveyor	37	111+
Extinguishers, movably mounted	169	52+
Fish	43	13
Fluid current motor		
Paddle	416	178
Flywheels	74	572+
Gearing		
Bevel	74	386
Laterally spaced wheels	74	432
Radially spaced wheels	74	433
Hand control	74	552+
Harvesters		
Grain wheels and casters	56	322
Horn		
Toothed wheel	116	144+
Impact receiving tools		
Thread protectors	29	277
Inclinometer	33	335+
Insulated hand	16	117
Joints in general	403	
Lathes	82	104+
Lock (See lock wheel)		
Lock	70	225
Brake	188	69
Caster	16	35R+
Lock for spare	70	259+
Making	29	894+
Railway	29	168
Wheelwright machines	157	
Marine propulsion		
Hydraulic jet	440	38
Manual paddle	440	21
Paddle	440	90+
Towing ground wheels	440	36
Metal forging		
Dies	72	343+
Metal founding		
Composite castings & joints	249	56

	Class	Subclass
Metal molds	249	56
Panel hanger	16	107
Mounts	16	97+
Plow		
Guide	172	286+
Potato diggers		
Sifter	171	71+
Sifter	171	111+
Potters	425	263+
Potters	425	459+
Power take off	74	13+
Pullers	29	244+
Pulleys		
Friction drive	474	166+
Positive drive	474	152+
Pumps		
Water motor	417	334+
Rack	211	23+
Velocipede type	211	20+
Railway	366	
Railway cable gripper		
Sprocket	104	236
Whelp	104	235
Resilient	152	
Pneumatic	152	53+
Pneumatic and coil	152	35
Pneumatic and leaf	152	34
Pneumatic and rubber	152	30
Rolling	72	67+
Rotary crane		
Bull wheel	212	246
Rotary fender		
Horizontal	293	19
Sash cord guides		
Casing combined	16	215
Multiple wheel	16	213
Sash weight attached	16	219
Ship steering		
Paddle wheel	114	147
Wheel and drum	114	160
Skates	301	5.3
Slip		
Acceleration induced, detecting in motor vehicle	180	197
During braking, regulating	188	2A
Spring	152	1+
Substitutes	305	
Brakes	305	9
Traction (See traction)		
Training for cycle	D12	122+
Trolley		
Guard or finder	191	76
Head	191	63+
Typewriter		
Index	400	165.1+
Key	400	174+
Vehicle		
Bearings	384	416
Land vehicle	301	5R+
Land vehicle design	D12	204+
Locks	70	259+
Marine towing	440	36
Pivoted carrier	280	38+
Railway	295	
Railway trucks	105	157.1+
Resilient	152	
Runner attachment	280	13
Runner combined	280	8+
Vertically adjustable	280	43+
Wheelbarrow	280	47.31
Water motor		
Wheeled bag	248	98
Wheeled hose reels	242	86.2
Wheelwright machines	157	
Wheel holding stands	157	14
Wind motor		
Woodworking		
Hub boring	144	97+
Special work machines	144	15+
Spoke turning	144	206
Workholding stand for	157	14
Wheelbarrow	280	47.31
Design	D34	16
Wheelchair	280	250.1+
Attachments	280	304.1
Design	D12	131
Folding	280	647+
Motorized	180	907
Seating aspect	297	DIG. 4
Wheeled (See Wheel)		
Aircraft landing gear	244	103R+
Ambulance stretchers	296	20
Beds		
Cable drum carriers	254	279
Coasters steered	280	87.1+
Earth working tools	172	
Fire engines	169	24+
Harrows	172	
Harvester	56	322+
Horse rakes	56	396+
Rear delivery	56	384+
Rear delivery revolving	56	380+
Ladders	182	12+
Plows	172	669+
Frames	172	669+
Land markers	172	126+
Pneumatic dispatch		
Carriers	406	185
Receptacles or trucks	280	
Roofing scaffolds	182	36+
Scoops	37	124+
Fork or rake	37	121
Skates	280	11.19+
Stands		
Bag holder	248	98
Movable receptacle	248	129
Store service		
Carriers	186	27+
Toys		
Aircraft	446	230+
Figure	446	269+
Knockdown	446	93+
Miscellaneous	446	431+
Rotating	446	237
Sounding	446	409+
Vehicles	280	
Vehicle	280	
Convertible to chair or seat	280	30+
Convertible to cradle or crib	280	31
Extensible	280	638+
Bier or casket type	280	640
Folding	280	639+
Folding carriage or stroller	280	642
Folding wheel chair	280	647
Fenders	293	43
Hand	280	47.17+
Motor	180	
Pivoted wheel carrier	280	38+
Railway rolling stock	105	
Shipment on freight carrier	410	3+
Shipping receptacle for	206	335
Walkers	280	87.2
Convertible to steered vehicles	280	7.1+
Steered	280	87.1+
Winding and reeling		
Hose reel carriers	242	85+
Reel carriers	242	86.5 R+
Wheelwright Machines (See Tire)	157	
Whetstone		
Compositions	51	293+
Structures	51	211R+
Whey	426	583
Whiffletree	278	90+
Harness connectors	54	53
Whip	231	2.1+
Animal prod	D30	156+
Cotton harvesters	56	29
Design	D30	156
Kitchen beater	D 7	380
Machines	231	1
Rack	211	67
Design	D30	143
Sifter clearers	209	383
Sockets	280	170+
Treadmill etc combined	185	15+
Whipping Devices		
Agitating or mixing	366	
Animal powered motor combined	185	24
Sweep	185	20
Goad	231	2.1+
Design	D30	156+
Electric	231	7
Initiating devices	272	27R
Sewing machine	112	121.2
Vehicle combined	280	178
Whipstock	166	117.5+
Earth boring combined	175	79+
Whirlers and Whirling		
Gas separation by deflection	55	447+
Nozzles	239	463+
Pneumatic conveyors	406	92
Rockets		
Rotating	102	350
Whirlers with	102	359
Toys	446	236+
Whirligigs (See Whirlers)		
Noise making toys	446	215
Spinning toys	446	236+
Flying propellers	446	36+
Whisk Brooms (See Brooms)	D 4	130+
Whisker Growth	156	DIG. 112
Whiskey	426	
Whistles		
Buoy	116	108
Electric	340	406
Liquid level	137	213+
Musical instrument	84	330+
Periodic	116	24
Security or signal instrument	D10	119
Signal	116	137R+
Steam	116	137R+
Structure	116	137R+
Toy	446	204+
Design	D21	64
White Lead	423	592+
Whiting	423	592
Wick		
Atmosphere	239	34+
Boiler	122	366
Burners	431	298+
Blast lamps having	431	252
Blast lamps having	431	300
Cookstoves having	126	45+
Heating stoves having	431	102+
Mantle or incandescent element combined	431	102
Perforated combustion tube type	431	195+
Porous block type	431	326
Coated	431	325
Combined dispenser	222	187
Combined with fuel	44	519
Compositions	502	400
Heat exchange, capillary heat pipe	165	104.26
Liquid purification or separation, capillary	210	294
Stops	431	301
Structure	431	325
Trimmer or handler	431	120
Wickets Doors	49	169+
Wideband Cable	333	239+
Wiener Roaster	99	324+
Electric	99	358
Elongated type	99	441
Wigner Effect	376	350
Wigner Effect	376	351
Wigner Effect	376	358
Wigner Effect	376	458
Wigs	132	53+
Accessory	D28	93
Design	D28	92+
Rooting hair by tufting	112	80.2
Toy	446	394
Willowers		
Textile fiber	19	85+
Wilton		
Carpet	139	391+
Making apparatus	139	37+
Winches (See Windlass)		
Wind		
Guards and shields		
Couch hammock combined	5	125
Harvester combined	56	190
Land vehicle combined	296	77.1+
Match receptacles combined	206	102+
Smoking devices combined	131	174+
Instruments, musical	84	330
Design	D17	10+
Motors (See current fluid; motor; windmills)	416	
Control for windmill driven generator	290	44
Generator drive system	290	55
Marine propulsion device	440	8
Ventilator drive device	98	
Musical instruments	84	330+
Automatic	84	83+
Automatic piano	84	24+
Pressure meters	73	861+
Propelled revolving sign	40	479
Illuminated	40	480
Screens for vehicles	296	84.1+
Socks and vanes	73	188+
Tunnels	73	147

	Class	Subclass
Winding & Coiling (See Coil; Spring)	242	
Abrading work handling	51	75
Bobbin winding on sewing machine	112	279
Capstans	254	266+
Drop hammer winding lift	72	437+
Drying winding elongated fabrics	34	153
Elevator	187	27
Portable	187	11
Fence wire	256	40+
Invalid transfer hoist	5	88
Metal bending	72	135+
Metal rolling and coiling	72	127+
Midline tighteners	24	71.2
Motion picture film	352	124+
Overwinding prevention		
Clock & watch key	81	467
Clocks & watches	368	209
Composite motor	185	13
Spring motor	185	43
Weight motor	185	35
Railway brake operator	188	145+
Reciprocating window operator	49	445+
Reeling and	60	905*
Sash balance spring drum	16	198
Spring or weight motor rewinding		
Alarm clocks	368	258
Clocks	368	147+
Electric clocks	368	207+
Mainspring tool	81	7.5
Spring motor	185	39+
Stem winding watches	368	216
Watches	368	147+
Weight motor	185	32+
Tool driving or impacting device operation	173	81+
Traversing hoists	212	142
Vehicle body lifter	254	48
Vertically adjustable lights	362	402
Wire drawing	72	289
Wound article making	242	7.1+
Ball making	156	170
Broom making	300	14
Coiling by rolling	72	127+
Crimp seam tube	72	48+
Hair curlers	132	226+
Inductance making	29	605
Laminated	156	
Magnet electric making	29	605
Match making	144	59
Method	242	7.2+
Nut making	10	74
Paper manufacture apparatus	162	283+
Paper manufacture processes	162	118+
Paper tube	493	269+
Riveted tube	227	52
Slitting web with	242	56.2
Textile	19	149
Textile delivery twist	57	62
Textile receiving twist	57	66+
Textile silvers	19	159R
Textile warp preparing	28	172+
Textile webs	28	103+
Tobacco products	131	59
Transformer making	29	605
Washer making	10	74
Welded tube method	228	145
Well screens	29	7
Wire	72	135+
Wireworking combined	140	
Wood bending	144	268
Windlace	49	500
Windlass (See Winding)	242	85+
Elevator	187	27
Ladder extension	182	208
Ladder wheeled	182	63+
Pulling cables	254	266+
Sand reel	242	117
Ship steering	114	160
Wood bending	144	263
Windmills (See Wind, Motors)	416	
Control for windmill driven generator	290	44
Design	D25	1+
Lubrication	184	4
Pump	417	334+
Toy	446	217+
Design	D21	119
Turntable	74	381
Windows (See Closure; Windshield)		
Bay window	52	201
Bead fastener hardware	16	220
Blinds	160	
Design	D 6	577
Length cutter	83	
Bracket support attaching to	248	208+
Cabinets	312	
Casement window operator	D 8	400
Cathode ray tube	313	420
Channel for sliding window	D25	119+
Cleaners belts	52	37
Cleaning		
Sheet holder wiper	15	232
Wiping device	15	220R+
Closure operator for	49	324+
Condensation preventing	52	171+
Bay	52	201
By ventilation	98	2
Frame in situ construction	52	204+
Picture or show	52	777+
Picture or show (See curtain wall)	52	764+
Storm	52	202
Well	52	107
Container having, rigid	493	905*
Curtain or shade	D 6	575+
Curtain supports	248	251+
Defrosting		
Electric heater with fan	219	203
Heating system	237	
Ventilation type	98	90+
Design	D25	52
Double glazed	52	788
Double glazed	52	479
Double hung	49	404+
Electric switch	200	61.62+
Envelope having	493	919*
Flower box	D11	156
Guards	49	50+
Land vehicle	296	146+
Curtains having	296	145
Design	D12	183
Windshields	296	77.1+
Letter box	232	22
Locks	70	89+
Milk receptacles	232	42
Mirrors and reflectors	350	600+
Plant receptacles	47	68+
Racks	211	
Scaffolds	182	53+
Screen or guard, design	D25	53
Screens	160	
Shelf supported on	248	236
Lighting	362	125
Stile pocket cutting machine	144	19
Storm and screen	49	61+
Stove	126	190+
Trim	52	211+
Troughs	49	408
Ventilation	98	88.1+
Windrowing	56	192
Windshield		
Automobile	296	84.1+
Design	D12	182
Cleaner	15	
Coating compositions	106	13
Defrosting (See condensation, preventer)	52	171
Vacuum motor	91	218+
Wines	426	592
Cooler design	D 7	304
Presses for making	100	104+
Wing		
Aircraft	244	35R+
Autorotating wing	416	131+
Beating for propulsion	244	72
Beating with ship	244	22
Foldable fenders	293	50
Helicopter	416	131+
Lighter than air with	244	25
Bed front	5	161
Drop bombs with	102	384
Hinge leaf multiple	16	389+
Nut	411	435
Pyrotechnics with	102	335+
Rockets with	102	348
Testing wind tunnels	73	147
Toy gliders with	446	61+
Wipe-forming Metal	72	149+
Wiper and Wiping	15	
Coating material supply means combined	401	261+
Dispenser with	222	148+
Discharge assistant carried	222	342
Inlet cleaner	141	90
Movable or conveyor trap	222	345+
Lubrication system with	184	10
Mold coating combined	118	
Printing intaglio	101	150+
Process	134	6+
Shade with	160	11
Sifting with	209	385+
Solder	228	22+
Wire (See Filament; Strand)		
Articles		
Binder devices releasably releasably engaging aperture or notch of sheet	402	
Book or copy holder	248	465.1
Brush and broom supports	248	112
By electrolysis	204	27+
By encasing in tube	228	126+
Chains	59	83
Cleaning implements	15	210B
Clothespin (See clothespin)		
Coating	427	
Curry combs	119	89
Door mats	15	241
Easels	248	465.1+
Electricity conductors	174	
Fences	256	32+
Garment stays	2	264
Handles	16	120
Hinges	16	373
Hook type brackets support penetrating	248	218.1+
Lathing	52	660+
Metallic receptacles	220	485
Miscellaneous strand structure	57	200+
Music score holder	248	465.1
Nursing bottle supports	248	107
Picture easels	248	465.1+
Picture frames	40	153
Pin fasteners	24	711.2+
Plastic material cutters	30	116+
Racks	211	181
Receptacle bail ears	220	92
Receptacle handles	220	95
Receptacle stands	248	153
Reinforced plastic railway ties	238	94
Rock cutting machine	299	35
Rod joint packing with	277	227+
Saw	83	651.1
Shelf brackets	248	249
Specially mounted racks	211	106
Stands	248	175
Stovepipe mounted racks	211	112
Supporting brackets	248	302+
Suspended racks	211	119
Tension cutter	83	200.1
Wireworking	140	
Wooden crate wired slats	217	51
Bonding	228	904*
Clamp	24	115R+
Coated miscellaneous	428	364+
Making	427	
Process	427	117+
With metal particles	428	553+
Working combined	29	527.2+
Container or wrapper for	206	389+
Couplings, fasteners, holders & ties		
Bale and package ties	24	27+
Bale bands with wire connections	24	26
Barrel covers	217	85
Belt fasteners	24	39
Check row planter wire end anchor	111	49
Cord and rope holders	24	131R
Crossed rod or wire joints	403	400
Interfitting	403	346
Folded tuft brushes retaining wire	15	199
Hooks and eyes	24	698.1+
Relatively movable hook portions	24	598.7+
Insulator embracing conductor ties	174	173
Internal bottle closures extension	215	264+
Lacing holding devices	24	712.8
Mop holders	15	154
Resilient clasps	24	530+
Resilient head snap fastener	24	626
Resilient socket snap fastener	24	678
Well screen spiral wire wound	166	231+
Wire bound and stitched brushes	15	189
Wire bound brushes and brooms	15	207

	Class	Subclass
Wooden box stays	217	71
Wooden box straps	217	68
Cutter	30	
Cutting coiled wire	83	907*
Cutting wires	83	950*
Dental arch	433	20
Electric		
Conductors	174	
Magnetic body treating coils	600	13+
Meter hot wire measuring	324	106
Telephony	379	
Tower support	52	40
Electroplating	204	27+
Fabric	139	425R
Bed bottoms	5	186.1+
Coating with rubber etc	204	180.4
Design	D 5	47+
Design for floor or wall	D 5	47+
Electroforming	204	11
Electrolytic coating	204	24
Pile textile weaving	139	37+
Wireworking	140	
Gauge, strain &	33	DIG. 13
Glass, safety glass	428	255+
Manufacturing	65	
Heat treated	148	400+
Coated	428	
Handling running length work	148	155+
Making	148	4+
Instruments, ribbon &	33	DIG. 7
Insulation cutter	30	90.1+
And remover	81	9.4+
Making		
Casting	164	423+
Coating with rubber etc	204	180.4
Covered or wrapped	57	3+
Drawing	72	274+
Drawing dies	72	467
Electroforming	204	12+
Electrolytic coating apparatus	204	206+
Electrolytic coating processes	204	27+
Metal rolling processes	72	365.2+
Screw thread rolling	72	95+
Wire glass	65	
Metal miscellaneous		
By electrolysis	204	12+
From powders	419	4+
Making miscellaneous	72	
Packaging for	206	389+
Photo systems (See facsimile)		
Recorders sound	360	89
Recording machines	360	89
Wire per se	360	131
Rope making	57	
Server/cooler	62	457.8
Sheet attached lathing	52	454
Splicing		
Bale or package tie	24	16R+
Electric conductor	156	49
Joint	403	206+
Textile analogue	57	22+
Trolley wire	191	44.1
Stitching stapling	227	
Stretchers	254	199+
Strippers	81	9.4+
Working and using machines		
Bobbin and cop winding	242	25R
Broom banding	300	15
Coiling	72	135+
Electric wire placing apparatus	254	134.3 R+
Etching to section	134	
Grain etc compressing and binding	56	451+
Harvester binder type	56	132
Hat frame	223	8
Hatbrim wire shaping	223	17
Metal forging and welding feeder	72	419+
Nail making	10	43+
Nailing and stapling	227	
Reels	242	78
Stapling	227	
Textile spinning twisting etc	57	
Working	140	
Wired Music		
Distributing system	379	101
With phonograph	379	87
Electric organs	84	600+
Electric phonograph	379	87
Wireless (See Radio)		
Wood (See Plywood)		
Alcohol (See methanol)		
Ball making	142	1
Bending	144	254+
Boring	408	
Buildings	52	
Carbonizing	201	
Carrier	294	149+
Coating	427	
By immersion	427	440
Comminution	241	28
Distillation	201	
Drying and vapor treatment	34	
Dyeing	8	402
Fastener made of	269	905*
Fences	256	19
Fuel	44	606
Briquette	44	590
Gas generation	48	209
Apparatus	48	111+
Hydrocarbon recovery from	585	242
Impregnating		
Processes for	427	
Insulated compartment for box	217	131
Moldings	52	716+
Nails	411	439+
Ornamenting		
Panel track combined	16	95W
Flexible panel attachment	16	87.4 W+
Pulp making		
Comminution processes	241	21
Pulp mill	241	280+
Receptacles	217	
Saturating or indurating		
Compositions	106	12
Compositions mineral oil	208	2
Fireproofing	252	607
Screws metal	411	378+
Making	10	2+
Shavings making	241	
Ships	114	82
Shoe soles	36	33
Attaching means	36	13
Slicing	144	162R+
Splitting	144	193R+
Staining	8	402
Structural		
Composite columns	52	720+
Compound lumber	52	782+
Joist connections	403	230+
Through intermediate member	403	187+
Nailing beam	52	376
Panels	52	782+
Rail pedestal	238	118
Rail seat cushions	238	285
Splices and joints	403	
Wheel making	144	15
Sugar production	127	37
Apparatus	127	1
Turning lathes	142	
Wind musical instruments	84	380R+
Working	144	
Design	D15	122+
Sewing	83	
Tools (See tools)		
Turning	142	
Woodbury Type	101	
With photographic step	430	300+
Woodwinds	84	380R+
Wool		
Chemical modification	8	128.1
Cleaning or laundering	8	137+
Devices and machines	68	
Waste cleaning	68	1
Dyeing	8	
Mixed textiles	8	529+
Vat or sulphur dyes	8	650+
Fertilizers containing	71	18
Liberation mechanical	19	2+
Mercerizing	8	128.1
Removing grease from	8	139+
Steel wool making	29	4.51+
Waste		
Cleaning and reconditioning	68	1
Work		
Carrier and support for sewing machine work	112	121.15
Holder	269	
Dental	433	49+
Electric welding	219	158+
For testing by stress or strain application to specimen	73	856+
Measuring		
Dynamometers	73	862+
Power unit efficiency	73	112+
Work table lighting system	362	33
Worm (See Gearing)		
Culture	119	6
Electrical expeller	47	1.3
Gearing	74	425+
Worship		
Cabinets	312	33
Teaching	434	245+
Wort		
Making	426	16
Apparatus	99	278
Wrap-forming Metal	72	296+
Wrapper (See Package)		
Bicycle article carrier	224	34
Coin type	229	87.2
Label pasting	156	
Newspaper	229	92
Paper	229	87.1+
Paperboard boxes	229	40
Tobacco	131	365
Cigar etc tube feeding	131	74+
Holders and carriers	131	105
Wrapping and Wrapped		
Chain links	59	92
Chain making	59	19
Cigar and cigarette making	131	27.1+
Packaging combined	131	283
Wrapping materials and devices	131	58+
Containers	D 9	305
Food preservation	426	392+
Machines	53	203+
Receptacle forming & filling	53	558+
Paper	D 5	
Sheet material		
Folding	53	116+
Printing and folding	53	116+
Printing and rolling	53	116+
Rolling	270	32+
Spinning etc apparatus	57	3+
Spinning etc processes	57	3+
Strand structure	57	210+
Textile smoothing implements	38	73
Warp preparing	28	176
Wire fabric stay applying	140	10+
Portable machines	140	16+
Wreath		
Artificial	428	10
Design	D11	120
Illuminated	362	122
Natural flora sustaining	47	41.1
Wrenches	81	52+
Adapted to turn eye screw	81	901*
Compound	7	138+
Constructed from specific material	81	900*
Design	D 8	21+
Impact	81	463+
Impact delivery clutch	173	93.5+
Making		
Forging dies for	72	470+
Machines	76	10
Methods	76	114
Monkey, combined with other tools	7	139+
Pump and oiler combined with	81	2
Tap, ratchet	408	120+
Wrigglers	239	229
Wringers	68	241+
Bevel gearing for	74	387
Drier combined	34	70
Mechanisms for washer and	74	17
Mop	15	260+
Brush combined	15	116.1+
Combined	15	119R+
Supports	68	239
Wash bench combined	68	236
Wash tub etc attachments	68	238
Wrinkling		
Coatings	427	257
Corrugating metal	72	191+
Paper apparatus	162	280+
Paper processes	162	111+
Wrist Pins	74	595+
Bearing	384	266+
For piston rod connection	384	268+
Wrist Watch (See Watch)		
Design	D10	30+
Fastener	63	3
Wristlets	2	170
Writing		
Forms	283	45
Guides	434	164

	Class	Subclass
For the blind	434	117
Implement (See pen; pencil)	D19	35+
Multi signature	33	23.6
Papers	D19	1
Surfaces	D19	52
Surfaces erasable	434	408+
Cabinet with	312	230
Teaching	434	162+
Telegraphic	178	18+
Wrought Iron		
Producing	75	438+
X Ray	378	
Absorption	378	51
Circuits	378	91
Computerized tomography	378	4
Contrast compositions	424	4+
Diffraction	378	70
Equipment	D24	2
Exposure process	430	967*
Film	430	966*
With cassette	378	182
Filters	378	156
Fluorescence	378	44
Fluoroscope	378	190
Lithography	378	34
Photographic	378	167
Scattering	378	86
Screen		
Bucky grid	378	154
Fluorescent or phosphorescent	250	483.1
Tube with secondary ray	378	140
Shield	252	478
Shields and shielding	250	515.1
Compositions	252	
Shoe fitting machine	378	192
Therapy	378	65
Timer	378	96
Treating	378	64
Tube	378	121
Tubes	378	121
Used in reaction to prepare inorganic or organic material	204	157.15+
Used in reaction to prepare or treat synthetic resin or	522	1+
Manufacture	445	28
X-type Package	206	809*
Xanthate		
Cellulose fiber treatment	8	122
Esters	558	245+
Cellulose	536	60+
Froth flotation	209	166+
Compositions	252	61
Xanthenes	549	388+
Xanthines	544	267+
Xanthogenation (See Xanthate)		
Xanthones	446	372
Xenol	568	747
Xenon	423	262
Xerography (See Photography, Electric)	430	31+
Dispensing digest	222	DIG. 1
Xeroradiography	378	28
Xylene		
Alkylation to produce	585	446+
Dealkylation	585	483+
Xylenol	568	716+
Xylidine	564	305+
Xylophone	84	404
Design	D17	23
Y Guns	89	1.1
Yacht (See Ship)		
Yale TM Lock	70	492
Yard		
Railway car	104	26.1+
Ship spar	114	95+
Stick	33	483+
Yarn (See Thread)		
Doll	446	372+
Fluid treatment of package	8	155+
Printing on	101	172
Structure	57	
Testing	73	160
Yeast	435	
Cell mutation, genetic engineering	435	172.1
Compositions	426	62+
Bread making with	426	18+
Fermenting carbohydrates by	435	
Products, microorganism per se	435	243+
Enzyme, processes for	435	183
Nonferment material combined	435	174+
For stabilizing	435	188
Propagation	435	255+
Apparatus	435	287+
Nonferment material combined	435	288
Yoghurt	426	583
Yohimbine	546	53
Yoke		
Animal draft appliance		
Neck yoke	278	119+
Thill	278	51
Apparel	2	122
Axle lubricator	384	374
Bottle closure	215	237+
Chuck	279	19.1+
Draft	D30	137+
Grapple	294	91
Harness	54	3
Ox	54	77
Motor fluid current	416	244R
Pipe joint	285	274
Railway		
Conduit	104	142+
Draft appliance cushioned	213	47+
Draw bar	213	67R+
Track fastener	238	314
Truck platform	105	214
Watch		
Lever set	368	199
Pendant set	368	197+
Wrench shank grip	81	152
Ytterium Inorganic Recovery	423	21.1+
Zearalanone	549	270
Zefran T M (polyacrylonitrile Pyrrolidone)	526	264
Zein (See Protein)	530	373
Compositions containing	106	149+
Zeolites (See Molecular Sieve)	423	328
Compositions containing	502	60
Liquid purification	210	263+
External regenerant supply	210	190+
Process	210	660+
Zero Insertion or Suppression		
Selective punching	234	24
Zero Setting Devices		
Dispenser with register	222	32+
Selectively preset cutoff	222	16
Register	235	144R
Zinc		
Alloys	420	513
Aluminum	420	540
Aluminum copper	420	431
Copper	420	477
Copper tin	420	476
Copper tin lead	420	475
Batteries	429	
Compound inorganic	423	
Fluorescent compositions containing	252	301.6 R
Halides	423	462
Inorganic	423	
Organic	556	118+
Dithiophosphates	556	25
Thiocarbamates	556	38+
Oxides and hydroxides	423	622
Paint containing	106	254+
Photo conductive	430	87
Pigment filler or aggregate	106	419+
Retorts	266	153
Zincates	423	592+
Electrodeposition	204	55.1
Electrolytic synthesis		
Aqueous bath	204	114+
Fused bath	204	66
Electrothermic processes	75	10.1+
Volatilization of zinc	75	10.3+
Hydrometallurgy	75	711+
Misc. chemical manufacture	156	DIG. 77
Plating	427	433
Electrolytic	204	55.1
Pyrometallurgy	75	654+
Combined with hydrometallurgy	75	431
Zipper	24	381+
Fastening to tape	29	766+
Luggage	190	903
Making	29	408+
Plastic casting on tape	264	252
X-art, package closures	206	810*
X-art, plastic articles	425	814*
Zirconate Ceramic Compositions	501	134+
Zirconium		
Alloys	420	422
Compounds		
Organic	556	51+
Recovery of inorganic	423	69
Refractory composition	501	94
Electrolytic production	204	64T+
Electrolytic production	204	105R
Misc. chemical manufacture	156	DIG. 95
Pyrometallurgy	75	612+
Zithers	84	285+
Zone Melting		
Crystallization	156	620.7+
Electric furnace	373	17
Induction furnace	373	139
Zootechny		
Breaking and training	119	29
Harness	54	
Breaking and training	54	71+
Propagation and care of animals	119	
Traps	43	58+
Zwieback	426	618+
Mortared	52	415+

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